The American Artisan
And Hardware Record

52. No. 5. CHICAGO, AUGUST 4, 1906. $2.00 Per Year.

COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

American Seal"
Elastic Oil Roof Cement
Asbestos Furnace Cement
Stove Putty
Stove Lining
The very best made!
ld by:
erkins Roofing & Supply Co., Western Agents,
235 Lake Street, CHICAGO, ILL.
ockhoff Supply Co., Southwestern Agents,
ST. LOUIS, MO.

TRYING to do business without advertising is like winking at a girl in the dark: you know what you are doing but nobody else does.

THE WIZARD
Adjustable Flexible Hanger.
The only Adjustable Hinge Hanger on market. Boiler Plate Steel Frame. Door Plate and Sliding Link Best Trade Malleable Iron.

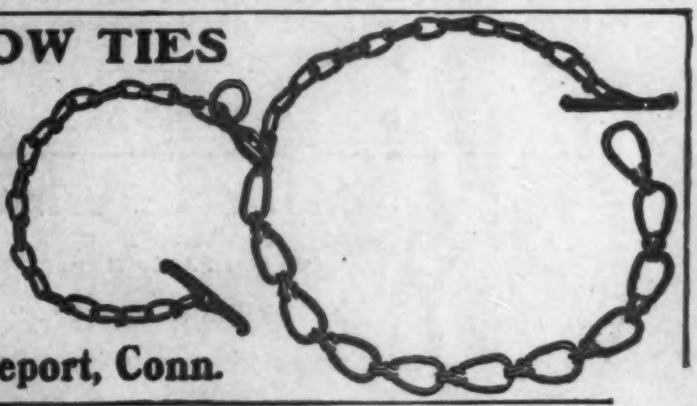
STEEL ROLLER BEARINGS
Safety Door Hanger Co.
Ashland, Ohio. Hamilton, Ont.

GARLAND NUT & RIVET Co. PITTSBURGH
SMALL RIVETS
FOR ALL PURPOSES
SELECTED MATERIAL
UNIFORMITY
GOOD APPEARANCE
SQUARE CUT-OFF
QUICK SHIPMENTS
SMALL BOLTS AND PUMP CHAIN
GARLAND NUT & RIVET CO.
PITTSBURGH, PA.

BLACK DIAMOND FILES and RASPS

PERFECT—ALWAYS
Twelve Medals Awarded at International Expositions
Copy of Catalogue will be sent free to any interested file user upon application.
G. & H. BARNETT COMPANY
Black Diamond File Works PHILADELPHIA

BROWN WELDLESS COW TIES
Twice as strong as welded chain.
A sample (full length) delivered for **one cent.**
Any Retail Dealer sending postal card request with name of Jobber secures sample prepaid.



Sole Manufacturers
The Bridgeport Chain Co., Bridgeport, Conn.

"A few plain words best express the truth!"
Moses told the Story of the Creation in less than 700 words (count them)

The Monarch Cinderella

Is a high grade base burner. Is a circulator or double heater. Is fitted air tight—has brilliant nickel. Has five flues—three for radiation and two for circulation. Has Ransom Duplex grate and "wear resisting" firepot.
Nickel parts, grate and firepot removed without the use of tools.

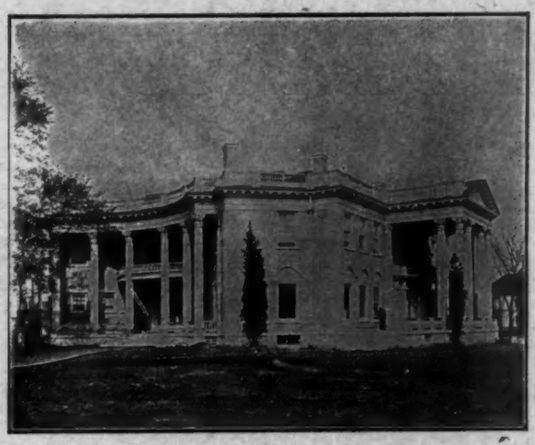
The Empress and the Imperial Cinderella Base Burners

Same construction, same size, same fitting. Less nickel—therefore less price. All are cheap. We make and sell more high grade parlor stoves than any other Pennsylvania Foundry.

The QUALITY is the cause of the QUANTITY.

The Stove & Range Co. of Pittsburgh

Don't Wait Too Long!



Kelsey Heated House, Buffalo, N. Y.

If you've been neglecting the Furnace Question—waiting until the Season opened before deciding on your line for this Fall—don't wait much longer.

The busy Season isn't far off.

And instead of selling an ordinary, everyday line of hot air furnaces—why don't you take up the sale of a line of heaters in which there's a future and a good profit for you?

The KELSEY Warm Air Generator is *out* of the *furnace* class.

The KELSEY gives the same even temperature as steam or hot water—without their disadvantages.

And with the KELSEY System, the warm air can be forced to any part of the building—regardless of exposure or location.

If you'll send us your name and address, we'll be glad to go over our Exclusive Agency Proposition with you—and point out how you can do *more* business and make *more money* in the heating line.

Send your name and address!

28,000 Kelsey Generators Sold
800 Active Agencies

KELSEY HEATING CO., SYRACUSE, N. Y.

New York City:
156 FIFTH AVENUE

Western Sales Agents:
COOK & VAN EVERA CO.
38 East Lake St., CHICAGO

JAMES SMART MFG. CO., Brockville, Ontario, Sole Makers for Canada

Master Economy

(PATENTED)

When we built this stove we intended that it should be a wonderfully powerful heater, a perfect fire keeper and so perfectly controllable by its mechanical devices that its user could readily govern it according to his own inclination, and we succeeded so completely that the result is a surprise to everybody, ourselves included, for in points of heating power, nicety of regulation and all round reliability it has vastly exceeded our most sanguine expectations.

There are many original ideas embodied in **The Master Economy.** They are our ideas exclusively and we hold excellent patents that cover them absolutely, so completely indeed that competition is impossible.

Let Us Tell You Why This Stove Is So Popular Among Its Users

Consider how much more heat a stove radiates which has 4500 inches of radiating surface than an ordinary stove of the same size which has 2000 inches. Learn why the air is so intensely heated before being shot into the firepot through the turtle blast. There is a reason for the mica keeping itself clean. When the damper is pulled changing draft from direct to base heater why should your house cat come crawling out from under this stove? Is not the Base hot? Is there not room in your town for a good, live progressive aggressive dealer to make money with his stove line by handling exclusively one which will do all that the Master Economy will do? If there is, get the agency. Get it **now,** do not wait until your competitor has it and then regret having lost the opportunity. **Write to-day.**

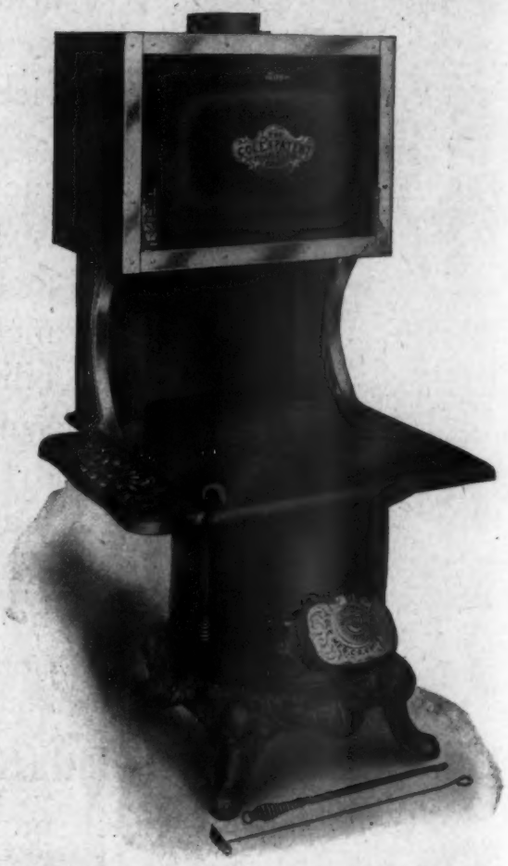
Comstock-Castle Stove Co.

QUINCY, ILL.

A GREAT NEW SPECIALTY

Cole's Patent High Oven Range

Destined to prove one of the biggest sellers in the history of the stove business.



The big money in the stove business has been made in the past by the dealers who have been successful in getting the agency for the Original good specialties which have been put on the market and the same will be true in the future.

This New Original Specialty is a great success. It has been thoroughly tested by more than 100 of our agents some of whom have sent in 3rd and 4th orders since giving it a thorough test.

We apply our Patent Hot Blast Combustion and Air Tight Construction to this new specialty and it is the greatest fuel saver and best Range ever placed on the market.

Reasons why it sells.

1st. The High Oven saves stooping and back aches.

2nd. You get breakfast with the soft or hard coal put in the night before.

3rd. The Oven is always under perfect control.

4th. It occupies much less space on the kitchen floor than any other range and the round body makes it possible to sweep all around and under the range.

5th. *We guarantee* the baking qualities equal to any other range at any price. That you get a saving of 30% over other ranges with soft coal and that it is more economical with hard coal and crushed coke than any other range.

Like Cole's Original Hot Blast this new specialty will be imitated by other manufacturers but it will be the dealers who get the agency for the Original who will build up the trade and make the money.

We want one exclusive agent in every good town for our four great profit making specialties.

Cole's Patent High Oven Range,
Cole's Coleized Steel Hot Blast Range,
Cole's Original Air Tight Wood Stoves, and
Cole's Original Hot Blast Coal Stoves.

Those of our agents who have not yet ordered a stock of Cole's Patent High Oven Ranges should do so at once, and dealers in towns where we have no agency should write us at once for terms and prices. Write today. Tomorrow may be too late.

Cole Manufacturing Co.

3218-38 So. Western Avenue, Chicago

QUICK MEAL

POLISHED STEEL RANGES

A GOOD STEEL RANGE CREATES GOOD TALK

QUICK MEAL STEEL RANGES RECEIVE PRAISE WHEREVER SHOWN

Quick Meal Polished Steel Ranges are constructed to produce the best results in all ways. The Fire Box is just heavy enough to make it durable and not so heavy as to require extra fuel to heat through. The Body is lined with Asbestos so as to retain the heat and distribute it where it will do the most good. You get full value and have it placed where it is required in the "Quick Meal."

RINGEN STOVE CO.

DIV. OF AMERICAN STOVE CO.

ST. LOUIS, MO.

SAN FRANCISCO, CAL.
115-121 Townsend St.

PORTLAND, ORE.
4th and Davis St.

FOSTER'S WINNER

Our Latest Steel Range

Foster's Winner is clearly up-to-date in all respects. It embodies every thoroughly good feature known to modern steel range making.

Some of Its Points—Body of heavy, polished Wellsville steel riveted every two inches and asbestos-lined throughout; balanced oven door, swing ash-pit door, wood extension fire-box taking 24-inch wood, duplex grate, heavy cast linings, cast encased reservoir with large enamelled tank; full sized ovens running 18x21x12 inches and 20x21x12 inches.

Practical Value and Attractive Prices

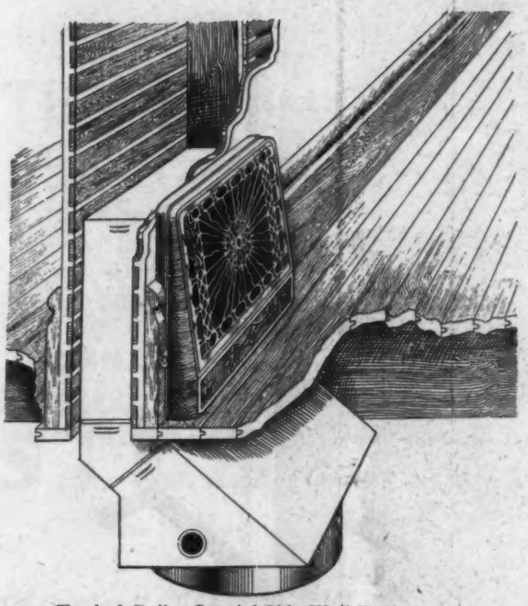
THE FOSTER STOVE CO., Ironton, Ohio

THE HANDY FURNACE PIPE

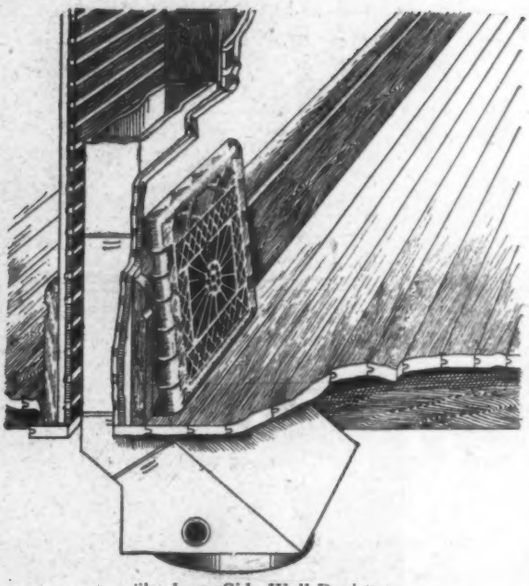
We Make Fittings for all the Leading Side Wall Registers

F. MEYER & BRO. CO.

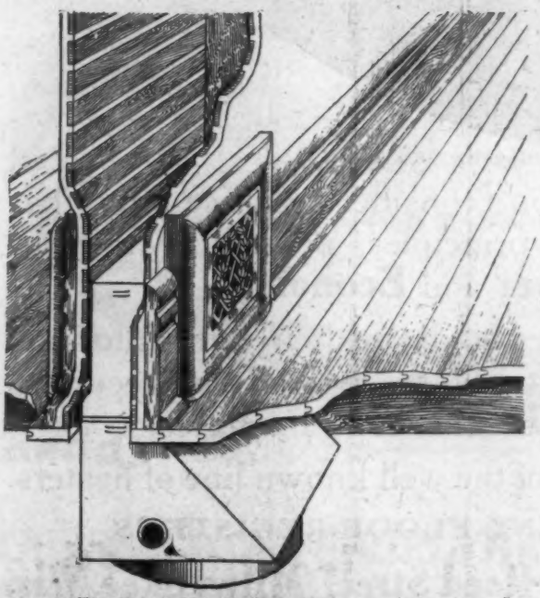
PEORIA, ILL.



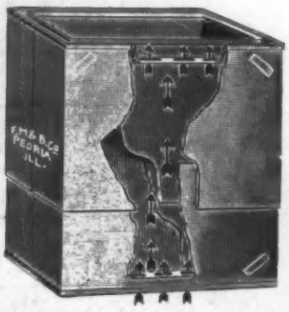
Tuttle & Bailey Special Side Wall Register with **HANDY** Fittings.



The Jones Side Wall Register with **HANDY** Fittings.



The Foster Side Wall Register.



The **HANDY** Adjustable Joint can be adjusted from 6½ to 12 in. By cutting off, any length under 6½ in. can be obtained.

No. 2—Stack Head for Side Wall Register.

MUELLER FURNACES

are not made with a view of competiton (considering price only) but are made on scientific and practical principles, possessing the important requisites of **Durability, Power** and **Economy.**

Dealers don't have to meet figures made by their competitors on inferior heaters, but on nine out of ten furnace jobs can secure a material preference if they install **MUELLER** Furnaces.

Then why not secure the agency of the well known line of heaters.

GET OUR PRICES ON WALL AND FLOOR REGISTERS.

L. J. MUELLER FURACE CO., 191 Reed Street, Milwaukee, Wis.

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

Southwest Corner
5th and Broadway

CINCINNATI, - - - - - OHIO

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

Never Break ——— *Circles Perfect*

With Lugs—For Double Casings
Without Lugs—For Single Casings
Full Circles—For Ordinary Use
Partial Circles—For Full Cast Fronts

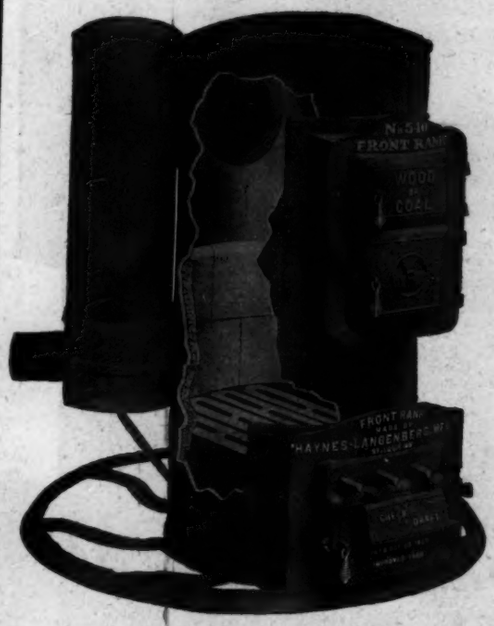
Always to Exact Circumference From Your Own Dimensions
Write Now

Ready to Use ——— *Increase Profits*

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings **Mfrs. of Semi-Steel Registers**

FRONT RANK STEEL FURNACES



are the peer of all Steel Heaters

NO DEALER SHOULD BE WITHOUT THEM

Front Rank Furnaces have been on the market for nearly twenty years, and at present, are being sold in every State in the Union where furnaces are used. **We guarantee them** to burn hard or soft coal, wood or coke, besides which **Any Hot-Water** combination can be used in the **Front Rank**

Write for Our 1906 Catalogue.

Handsomely illustrated—containing pertinent and pithy furnace facts.

HAYNES-LANGENBERG MFG. CO.

ST. LOUIS, MO.

RICHARDSON & BOYNTON CO.

Manufacturers

Warm Air Furnaces

Hot Water and Steam Boilers

Tank and Laundry Heaters

SEND FOR LATEST CATALOGUE

NEW YORK CHICAGO BOSTON

B. & B. TESTING OF OIL HEATERS

No. 33

We believe in making goods right—honest in material, correct in principle, with thorough construction. It is our constant aim and effort to keep our men inspired to this same high standard of excellence. Perhaps no one feature in our system for securing right results is of greater importance than the testing department through which every stove must go before it is ready for the crate.

With Oil Heaters, for instance, the tank is filled with oil in the usual way, the burner is lighted and kept in operation for some time, and all features of construction are thoroughly inspected. A defective joint or a carelessly made wick-raiser is bound to be noticed. All this, understand, is in addition to the many minor tests and inspections which parts receive on their way through the plant. Can you afford to buy Oil Heaters made in any other way when you can get the B. & B. at an equivalent price.

Our printed matter tells the story. The prices you can quote will get the business.

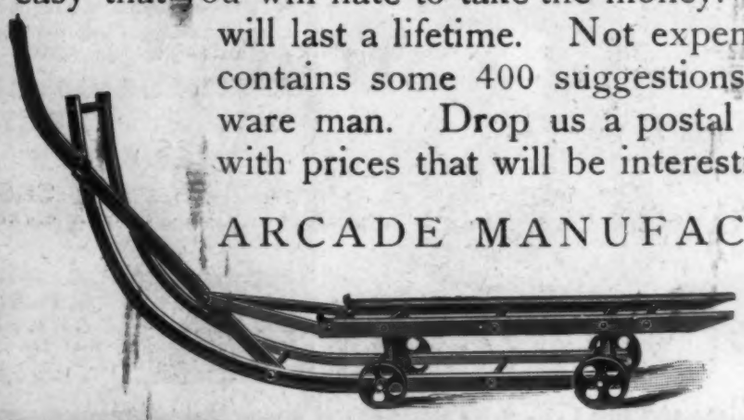
GLAZER STOVE CO.

CHELSEA, MICHIGAN

Chicago Agency—W. D. SAGER—38 Michigan Street

CAN YOU MOVE A HOT STOVE?

Hot or cold, big or little, the Baltzly will handle them so easy that you will hate to take the money. Made of steel and will last a lifetime. Not expensive. Our catalog contains some 400 suggestions for the alert hardware man. Drop us a postal and we will send it with prices that will be interesting.



ARCADE MANUFACTURING CO.

FREEPORT, ILLINOIS.

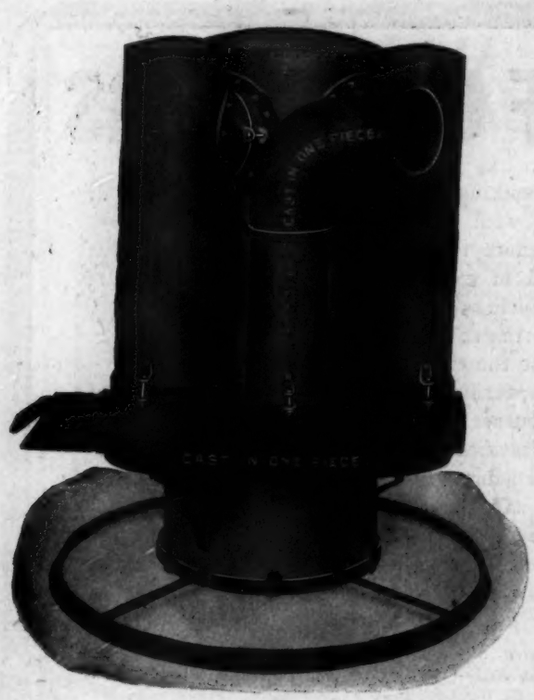
THERMOSTATS

SPRAGUE DAMPER & VALVE REGULATORS Non-Electric. 18 years in use. Thousands giving satisfaction; they are guaranteed; also Sprague Electrics, and automatic checks for Steam, Hot Water and Hot Air Heaters of all kinds.

HOWARD THERMO. CO., - West, Oswego, N. Y.

Southnek & McElrath,
Moville, Iowa, write:

"Please take out our Want Advertisement. We have too many letters to answer."



The American Furnace

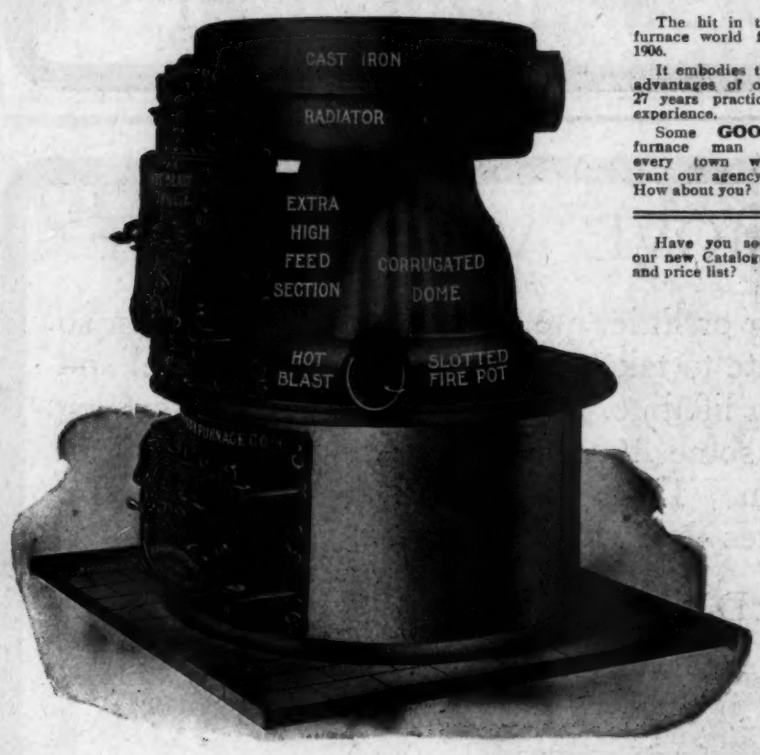
Combines DURABILITY, EFFICIENCY and ECONOMY—while as regards LARGE SALES there is no better furnace on the market

THE AMERICAN FURNACE supplies, correspondingly, considerably more heat with a given amount of fuel than any other furnace.

Write for Particulars

American Furnace Co.,
ST. LOUIS, MO.

ROBINSON HOT BLAST



The hit in the furnace world for 1906.

It embodies the advantages of our 27 years practical experience.

Some **GOOD** furnace man in every town will want our agency—How about you?

Have you seen our new Catalogue and price list?

Robinson Furnace Co., Established 1879 **107-109 Lake St., CHICAGO**

C. De Witt Wagner, 40C Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."

Here's a Chance to Enjoy

A Summer Outing

3 DAYS LAKE TRIP $13
Chicago to Escanaba & Green Bay Ports & Return, Including Berth and Meals.

4 DAYS LAKE TRIP $17
Chicago to Mackinac Island and Return Including Berth and Meals.

MUSKEGON or GRAND HAVEN
AND RETURN FROM CHICAGO **$2.75**

MILWAUKEE
AND RETURN FROM CHICAGO **$1.50**

Write for folder and any particulars desired to

GOODRICH BOATS

R. C. Davis, G. P. A.
Docks, foot of Michigan Ave.
Chicago, Ill.

Jesse J. Hensel, Milan, Wis., writes: "I find your publication of such inestimable value in my previous capacity as hardware manager for a large firm located in the western part of this state, that I feel as if I could ill afford to be without it now."

BOYNTON

Oldest firm in the business with goods up-to-date—Best on the market

FURNACES

All Kinds

Made of Cast or Wrought Iron or both.

Portable or Brick Set

Best Known Made Assortment Terms Seller

Send for Catalogue on Heaters and Furnaces.

The Boynton Furnace Company

147-149 Lake St., CHICAGO 207-209 Water St., NEW YORK

Monarch Air Blast

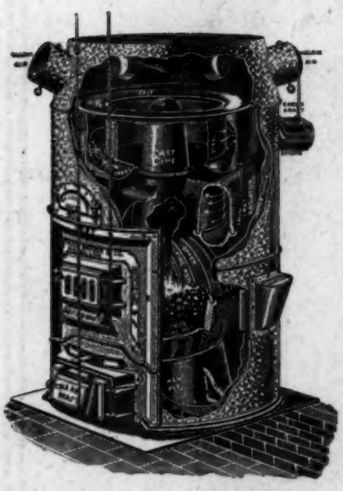
All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.

WHICH WILL IT BE?



Are you figuring a BOOMER Furnace on that heating job—or the other kind?

Which will it be—a BOOMER, or something else—satisfaction—or dis-satisfaction?

Your customers are depending upon you to sell them a furnace that will not only properly warm their houses this Winter—but continue to warm them properly for many Winters to come.

The BOOMER Furnace won't disappoint you or your customers.

BOOMER Furnaces are made to live long, useful lives.

And the BOOMER Profit is quite an argument in itself.

Have you received our catalogue and prices?

We also make BOOMER Steel Ranges.

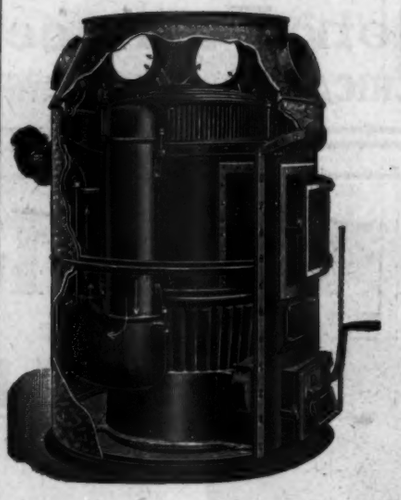
THE HESS-SNYDER COMPANY, Manufacturers, **Massillon, O.**

HEAT LIGHT FOR THE HOME STORE HOTEL SCHOOL CHURCH OFFICE COLLEGE THEATRE FACTORY VILLAGE

INFORMATION FREE SEND FOR IT.

DETROIT HEATING AND LIGHTING CO. DETROIT MICH.

Floral City Furnaces



were designed to meet the demand for a heater that would burn hard coal, soft coal and wood equally well. Some important changes have recently been made and it will be to your advantage to secure our latest catalog.

Tireless care, skilled workmanship and perfect castings unite in making these furnaces reliable.

Monroe Foundry & Furnace Co.

MONROE, - MICHIGAN.

Independent Deflecting Wall Registers

Low in Price
Standard in size
Right!

Independent Register Co.
Cleveland, O.

MONCRIEF

Warm Air Furnaces

Combine SIMPLICITY, DURABILITY, ECONOMY and CLEANLINESS IN USE

SPECIALTIES
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY A. SCHEIBLE CO.
6-8-10 Long Street, CLEVELAND, O.

Sales Agent—J. C. KIMMEL, 3514 East 15th Street, Kansas City, Missouri

"Our Neighborhood" is a busy place these days making and shipping Aerflame Steel Ranges.

Shipping Points where full stocks are carried for prompt shipment: Duluth, Sioux City, Kansas City and Salina, Kans. Western Foundry, St. Charles, Ill., near Chicago.

Rather a "pleasing proposition" don't you think? And so reasonable in price too!

Der neue Kochherd wiegt, fertig zum Versenden, über fünfhundert Pfund, hat einen viereckigen Backofen, dreizehn Zoll hoch und zwanzig Zoll tief; der Backofen ist oben gut geschützt durch schweres Gußeisen, und der Feuerplatz ist ventilirt und mit extra schweren gußeisernen Platten ausgefüttert. Der Händler, welcher den **Aerflame** verkauft, hat keine schädigende Konkurrenz zu fürchten, denn dieses ist der einzige Kochherd seiner Art und ist völlig geschützt durch Ver. Staaten und ausländische Patente.

If you wish to learn more about Aerflame Stoves write to Federal Stove Co., St. Charles, Ill.; don't wait for the traveling salesman as we have none—preferring to give the dealer advantage of very close price for direct mail orders. Do it now!

We're a mail order house but not of the bad sort since we aim to serve Hardware Merchants only.

The Aerflame is the Range for those who wish to sell something that catalog houses haven't got *and can't get;* patented in the United States in Foreign Countries.

"At the suggestion of one customer, ordinary slack or screenings from soft coal was used during the greater part of the experiment. The price of this slack was $2.00 per ton and we are pleased to state that the intense heat and flame produced in your fire box with this usually inferior fuel, was equal to that of the very finest grades of other coal burned in an ordinary fire box." —*Kansas Letter.*

"Say, what's the matter with this coffee?" queried Slopay.

"Same thing that's the matter with you, I suppose," answered the landlady; "it's a little slow about settling."

Buyers of Aerflame Ranges are never slow about settling because they "like the goods."

The Fulton Hardware Co., Portland, Ind., write:

"Please discontinue our want ads for tinner and plumber, as we have received more replies than we can take care of at present."

THE NEW

LION FURNACE

Now Ready for the Trade

Can Use Hard or Soft Coal

Simple in Construction

and a Successful Heater.

Our Catalogue gives you full information.

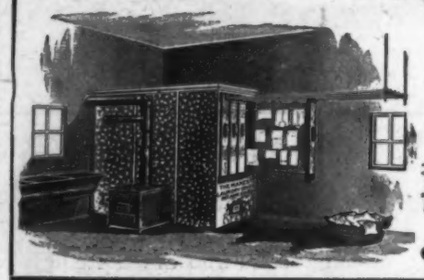
Write for it TO-DAY

YOUNGSTOWN FURNACE & SUPPLY COMPANY

YOUNGSTOWN, OHIO

Address all western inquiries to our Western Distributors, COOK & VAN EVERA, 38-40 Lake St., Chicago, or to ROOD & McINTYRE, Kansas City, Mo., our Distributors in Southwest.

***The* "Manest" Family Clothes Dryer**



A Laundry Stove and Drying Cabinet Combined.

One fire boils the clothes, dries the clothes and heats the irons. Good profits to agents.

THE MANNEN & ESTERLY COMPANY

Successors to MANNEN & ESTERLY

CLEVELAND, OHIO

There Are No Better

FURNACES

Than those made by the

GRAFF FURNACE CO.

of New York City

In successful use for 25 Years.

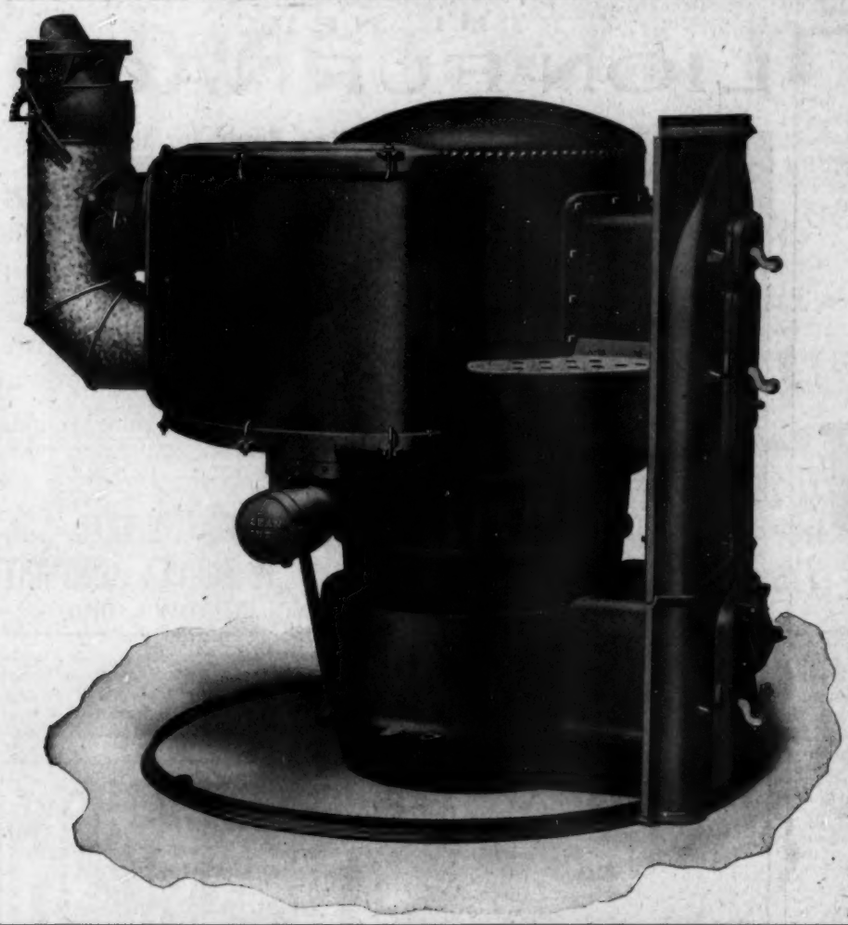
Largest variety of styles and sizes.

For Western trade we have established a warehouse and sales agency at

Decatur, Ill.

C. M. BARNETT

SALES AGENT



A New 1906 Model Magee Boston Heater

"B" Series

CAST-POT MODEL

The latest development of one of the most famous Magee Models. It possesses several new features that give an increase both in efficiency and convenience of operation.

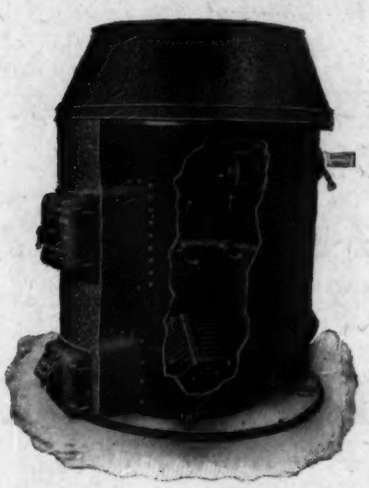
The Double Feed Door with large Feed Mouth is an especial convenience. The large surface of the Revertible Flue Radiator is clearly shown, also Direct and Indirect Smoke Flue connections and clean-out opening. Every detail makes for convenience, cleanliness and fuel economy.

With the well established high standard of Magee Construction is combined a design that presents the fewest possible joints and gives ample stability to resist long and severe service.

Magee Furnace Co.,
Office and Sample Rooms
38 Union Street, Boston, Mass.

Write for Catalogue and Prices to
LOTT-BURTON CO.
General Western Sales Agents
86 Lake Street, Chicago, Ill.

PROGRESSIVE DEALERS



Stanton Upright Steel

Notwithstanding the fact that Manufacturers who are not equipped for making a steel Furnace are using every effort to prevent it, progressive dealers are rapidly getting in line with the fact that STEEL FURNACES when properly constructed are a great improvement over the old cast iron kind.

We are pioneers in the manufacture of Steel Furnaces, and our long experience puts us in position to offer you the best.

Write for prices and description of our full line.

THE STANTON HEATER CO.

MARTINS FERRY, OHIO

Wabash Excursions

FROM CHICAGO

$14.40	TORONTO and Return. On sale daily.
$20.00	MONTREAL and Return. On sale daily.
$21.00	CONCORD and Return. On sale June 15 to 30, and July 18; Aug. 8 & 22; Sept. 5 & 19.
$22.50	PORTLAND, Me., and Ret. Selling dates same as to Concord.
$21.00	RUTLAND, Vt., and Return. Selling dates same as to Concord.

Proportionate rates to many other points in Canada and New England.

For complete details as to stop-overs, etc., address

F. H. TRISTRAM,
Assistant General Passenger Agent,
97 Adams Street, CHICAGO.

THE AMERICAN ARTISAN Want Ads fill your wants.

OUR LITTLE GIANT for Combination Heating

is known to furnace men and plumbers in every State, and is more widely used than any other combination heater made. Along with our Circular Giant and Maltese Heater, it has won its way to the top. Don't try something new, but send for our Catalog.

CHARLES SMITH COMPANY, 101 Lake St., CHICAGO

CUT THIS OUT

To the Publishers

The American Artisan and Hardware Record

69 Dearborn Street, CHICAGO

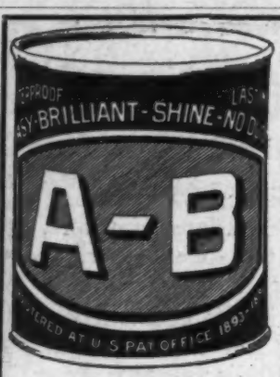
Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

NAME .....

ADDRESS .....

TOWN .....

STATE .....



A-B Stove Polish

Paste—Liquid—Powder

We make the most lasting, most brilliant, most convenient and best working stove polishes in the world. **We use the best materials and the best process.** Shelf goods in bottles and cans are brilliantly labeled and attractive.

The Most Attractive Goods Sell Best

For Stove Dealers' Use we make a patented dry powder stove polish, put up in bulk in wood boxes of 5 pounds each. Mix it as you want it; remix and use what remains, use every crumb of it. Five pounds does more, better and quicker work than 15 pounds of paste polish.

Write for our handsome booklet in colors with prices on all polishes.

A-B POLISH COMPANY, 14 Haddon Avenue, CHICAGO, ILL.

THE GILT EDGE RADIUM

has been studied out with a view to **practicability** and **comfort** in every detail.

The air entering at the front in the **Gilt Edge Radium** is controlled so as to give greatest **Uniformity of Heat in the Fire-Pot.**

Greater efficiency cannot be found in any other "Horse-Shoe" Furnace.

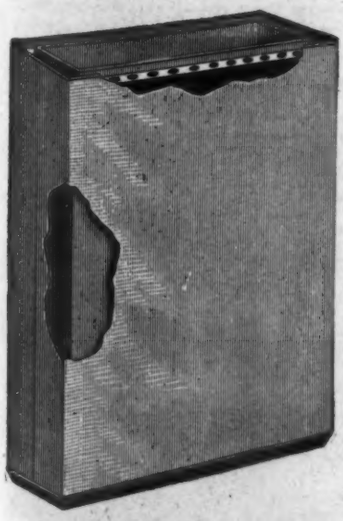
See Our Catalogue

R. J. Schwab & Sons Co.

. · THE FURNACE MEN · .

MILWAUKEE, WISCONSIN

GREEN FURNACE PIPE



Our Double and Single Furnace Pipe and Fittings are easily and quickly put together because they are perfectly made by skilled mechanics. We would suggest that you find out the freight rate on this class of goods from Des Moines to your station and compare it with that from any competing point. We have an immense stock and can always ship your orders promptly. We shall be glad to receive your request for our catalogue and discounts.

Green Foundry & Furnace Works

DES MOINES, IOWA

The Champion

Hot Water Combination Boilers

"They Fit Any Furnace"

(Base section when used without ring sections)

Combination heating for residence or buildings excells all others. The **Champion** boilers are adapted for the use of **all kinds** of fuel, and are tested to 100 pounds hydraulic pressure before leaving factory. They are **guaranteed** not to leak.

The Champion will increase the heating capacity of any furnace, and reduce coal bills as well. They will increase the business of every dealer who handles them.

FRANK D. STOLZ,

156 Webster Ave. CHICAGO

BORN

Everything for the Kitchen

Whether Residence, Hotel, or Institution

Steel Plate Ranges, Broilers, Bake Ovens, Coffee Urns, Steam Tables, Plate Warmers, Steam and Gas Cooking Appliances, Laundry Stoves, Water Heaters, Tin and Copper Ware.

Your business library is incomplete without a set our new catalogues. Let us send them to you and quote our liberal discounts.

The Born Steel Range Co.

CLEVELAND, OHIO

Tin, Sheet Iron and Copper Plate Worker

A practical Workshop Companion, containing rules for describing various kinds of Patterns used by Tin, Sheet Iron and Copper Plate Workers; Practical Geometry, Mensuration of Surfaces and Solids; Tables of the Weights of Metals, Lead Pipe; Tables of Areas and Circumferences of Circles; Japans, Varnishes, Lacquers, Cements, Compositions, etc., etc. By Leroy J. Blinn. With over 100 illustrations. $2.50.

For Sale by

DANIEL STERN,

69 Dearborn Street
CHICAGO.

REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

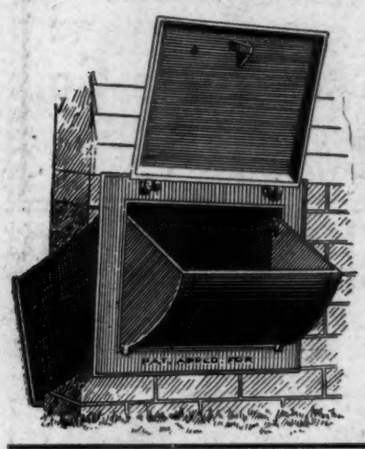
FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.

FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.

FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority

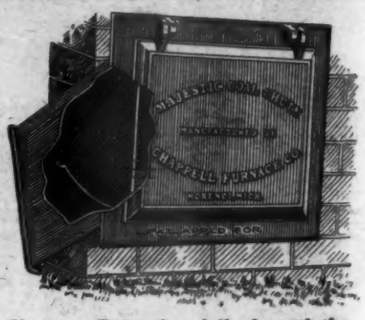


THE MAJESTIC

Coal, Wood or Vegetable

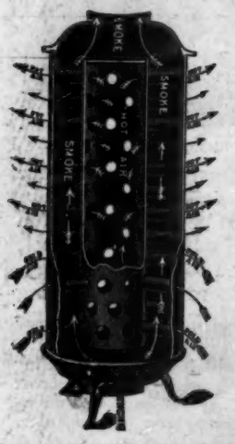
CHUTE

Fills a long felt want. Is burglar proof. Saves many broken windows. Is a splendid seller. Write for prices and secure agency at once.



Showing Door closed flush with the wall, and automatically locked on the inside.

THE CHAPPELL FURNACE CO., Morenci, Mich.



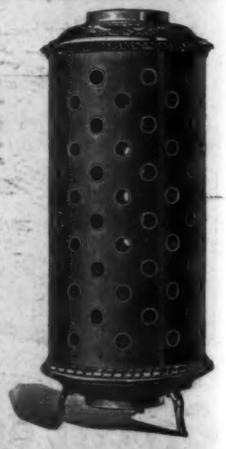
Save ½ Your Fuel

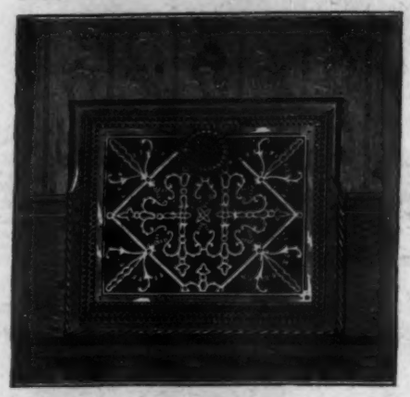
BY USING THE

ROCHESTER RADIATOR

Satisfaction guaranteed or money refunded.
Over 100,000 of them in use.
Fits any stove or furnace.
Price from $2.00 to $12.00.
We make the original and genuine "ROCHESTER RADIATOR."
We do not sell to catalogue houses.
For Hard or Soft Coal, Wood or Gas.
We refer all inquiries, to you from your town, when you carry a stock of our Radiators.
We guarantee our radiators not to interfere with or choke the draught, they are easily cleaned.
One square inch of radiating surface directly over the hot current is better than six in a drum, or side heater, with perpendicular tubes.
Write for descriptive catalogue and prices.

ROCHESTER RADIATOR CO., 120 Furnace St., Rochester, N. Y.





THE SCHWAB SIDE WALL REGISTER

THE SCHWAB SIDE WALL REGISTER AND REGISTER BOX, NEATEST IN DESIGN, NOISELESS IN OPERATION, SUBSTANTIAL IN CONSTRUCTION, A FACTOR IN MODERN METHODS OF HEATING RESIDENCES FULLY ILLUSTRATED IN OUR REGISTER CATALOGUE. SENT FREE ON APPLICATION.

R. J. SCHWAB & SONS CO., The Furnace Men **Milwaukee, Wis.**

Perfect Organization

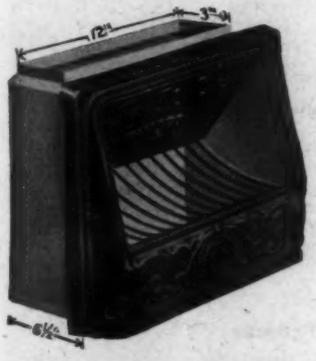
Mastery of detail, unswerving loyalty to high business principles and constant devotion to quality, resulting in finished goods unrivalled in their class. Our descriptive catalog is at your service to furnish a more intimate acquaintance.

H. ADLER COMPANY

Carnegie, Pa.

Western Office and Warehouse:
1225 W. 10th St., Kansas City, Mo.

Manufacturers of
ACME Gas Appliances



The Auer

is the one register on the market that affords a foot rest and foot warmer. It also ventilates the room. It has adjustable valve and is the most ornamental register made. The Auer is guaranteed to be free from all defects in either material or workmanship.

Auer Register Co.

403 Long Avenue Cleveland, Ohio

Kundert & Fitzgerald,

Madison, S. D., write:

"We secured a good tinner through your paper."

Quality Is Everything

and QUALITY is inherent in the

"WEIR"

Warm Air Furnace

That is why they are cheapest in the end.

MEYER FURNACE CO. PEORIA ILL.

100 Tinners' Patterns

THE AMERICAN ARTISAN FULL SIZE PATTERNS

Comprise patterns for a full line of tinware, in numerous sizes, square and round elbows, cut-offs, etc. These full-size patterns, numbering upward 100, are printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. The list contains the following patterns:

Tea Steeper
Two-pint Tea Pot
Three-pint Tea Pot
Four-pint Tea Pot
Five-pint Tea Pot
One-quart Coffee Pot
Two-quart Coffee Pot
Three-quart Coffee Pot
Four-quart Coffee Pot
Five-quart Coffee Pot
No. 1 Coffee Boiler.
No. 2 Coffee Boiler
No. 3 Coffee Boiler
Lamp Filler
One-pint Dipper
One-quart Dipper
Two-quart Dipper
Four-quart Flaring Pail
Six-quart Flaring Pail
Eight-quart Flaring Pail
Ten-quart Flaring Pail
Twelve-quart Flaring Pail
Fourteen-quart Flaring Pail
Ten-quart Dish Pan
Twelve-quart Dish Pan
Fourteen-quart Dish Pan
Sixteen-quart Dish Pan
Dinner Bucket
Five-inch T-Joint
Six-inch T-Joint
Eave Trough Mitre Joint
"Snap" 2-inch Conductor Elbow
Cullender
Two-inch Square Elbow
Two-and-a-half-inch Square Elbow
Three-and-a-half-inch Square Elbow
Four-and-a-half-inch Square Elbow
Five-and-a-half-inch Square Elbow
Six-and-a-half-inch Square Elbow
Seven-and-a-half-inch Square Elbow
One-pint Funnel
Two-pint Funnel
Three-pint Funnel
Four-pint Funnel
Small Milk Strainer
Large Milk Strainer
Ten-quart Milk Pail Breast
Fourteen-quart Milk Pail Breast
Two-inch Four-piece Round Elbow
Three-inch Four-Piece Round Elbow
Four-inch Four-Piece Round Elbow
Five-inch Four-Piece Round Elbow
Five-and-a-half-inch Round Elbow
Six-and-a-half-inch Round Elbow
Seven-and-a-half-inch Round Elbow
Small Grocers' Scoop
Medium Grocers' Scoop
Large Grocers' Scoop
Apple Corer
Oval Foot Bath
Oval Pudding Pan
Half-gallon Can Breast
One-gallon Can Breast
Two-gallon Can Breast
Three-gallon Can Breast
Half-pint Measure
One-pint Measure
One-quart Measure
Half-gallon Measure
One-pint Basin
Two-pint Basin
Three-pint Basin
Four-pint Pan
Six-quart Pan
Ten-quart Pan
Small Cake Pan
Medium Cake Pan
Large Cake Pan
Small Wash Basin
Large Wash Basin
Sprinkler Breast
Four-gallon Churn
Five-gallon Churn
Small Dust Pan
Large Dust Pan
Five Sizes Funnel Patterns
Oval Dinner Bucket
Rain Water Cut-off
No. 7 Boiler Cover
No. 8 Boiler Cover
No. 9 Boiler Cover
No. 7 Boiler Bottoms
No. 8 Boiler Bottoms
No. 9 Boiler Bottoms

THE AMERICAN ARTISAN full size patterns are a great convenience, and in no other way can they be obtained at so small a cost. Price, sent postpaid for the

FULL SET OF 100 PATTERNS $1.00.

DANIEL STERN, 69 Dearborn Street, CHICAGO, ILL.

A FURNACE HINT

You can't expect to do a prosperous and satisfactory business unless you have the RIGHT GOODS.

Your customers will demand this of you—sooner or later.

Don't wait for them to say so—it won't pay, because there's always the other fellow.

Start right, now. We'll guarantee to give you the right goods—made in a modern way, in a modern plant—and at the right prices.

Write us about it.

THATCHER FURNACE CO.,

110-112-114-116 BEEKMAN STREET
NEW YORK

ARE YOU COMING?

If you do come to market this fall—see holiday goods and general merchandise at headquarters. Make your market "home" with us.

Use our sample displays—whether you buy of us or not. Nowhere else can you find so large and varied a line, so conveniently shown as in any of our buildings in these six cities:

New York	**Baltimore**
Chicago	**St. Paul**
St. Louis	**Dallas**

Wholly aside from the question of purchases, your personal welcome will be a warm one. We want but an even chance at your business. Can you afford not to give us that?

And for more business now—shall we send you our August Catalogue No. MC583.

BUTLER BROTHERS

Wholesalers of General Merchandise

NEW YORK CHICAGO ST. LOUIS

(And MINNEAPOLIS Early in 1907)

Sample Houses: BALTIMORE, DALLAS, ST. PAUL

ROUND OAK

STANDARD OF AMERICA

STOVES RANGES FURNACES

Every dealer in furnaces knows the requirements of a genuinely good furnace, and yet the continuous pressure for "low price" causes them to be lost sight of. It is possible, as we are prepared to prove, to build up an enduring satisfactory furnace business with quality for the slogan instead of "price only." It is possible to gain a reputation for doing only successful warm air heating, and at prices that make it pay all concerned. The Round Oak furnace is called "high priced." We have hundreds of customers who will verify our statement that it is the "cheapest." Round Oak methods also cost more money, but they make for more business of the right sort. If not hopelessly in the "lowest bidder" rut, write to us and we will write to you. We will send furnace book and do our best to say something interesting.

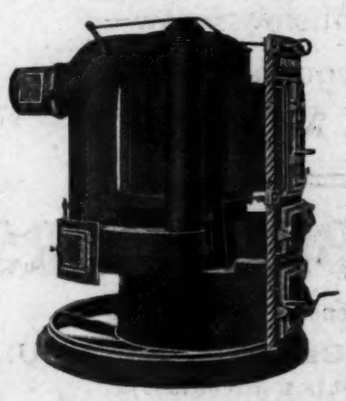
ESTATE OF

P.D.BECKWITH,

FRED E. LEE, Manager,

Dowagiac, Mich.

MAKERS OF GOOD GOODS ONLY.



"I vant to be always as goot as der Round Oak stove."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES, THEIR POSSESSIONS AND CANADA, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES EXCEPT CANADA, ONE YEAR, POSTAGE PAID, $4.00

Address all Letters, communications, and remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION

CHICAGO, AUGUST 4, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

Corruption Is Not General.

The pessimistic strain in which the newspapers generally have handled the scandals in connection with the insurance companies and other large corporations has given birth to the conviction that business conditions in this country are in a bad way and that corruption exists everywhere.

While not attempting to defend any improper practices that may have crept into business transactions, the attempt to impress upon the minds of the unthinking masses the idea that the whole or the larger proportion of the business world, corporate or individual, is permeated with fraud and dishonesty, is even more a crime than has been disclosed in any investigation yet held.

This country is at present a beehive of industry. Its daily and yearly transactions are of an unparalleled magnitude and it is silly to state that these transactions are carried on from day to day totally regardless of the rulings of honesty.

There is a certain amount of reformation that is necessary and that should be favored from a general business point of view. Recognition of this fact must always be of substantial value in the work of regulating things which must be kept under more or less surveillance.

It is a general business proposition that the business most identified with certain conditions is the one which has the greatest interest in having those conditions in such shape as will meet popular approval and prevent the development of a spirit of hostility which in the end will kill the business in question.

The sane business man appreciates the fact that the most valuable asset of his business is good will; fire can destroy factories, cash can be stolen, but good will can be neither burnt up nor appropriated. It is of slow growth and must be jealously guarded.

Single instances of corruption will constantly crop up, but they are no criterion of general business conditions. The instinct of self-preservation is all powerful and this in itself will be sufficient to prevent anything like general corruption in the business world.

The Importance of the Retailer.

Most advertising done is aimed at the consumer. This is as it should be, but at the present time a great many manufacturers are making a costly mistake in neglecting to train their guns on the retailer. There was a time when the manufacturer trusted to the retailer to push his goods; then competition became more keen and one line of goods after another was set aside by the retailer for what he deemed a better line.

Experienced hardware men can probably call to mind how, in such circumstances, some manufacturers were ill advised enough to viciously attack the retailer for thus discarding their goods and giving prominence to others. This led to bitterness and retaliation. The manufacturer began to disregard the retailer and approach the consumer directly; he spent vast sums of money in advertising his goods and inserted a "caution" or "warning" in his literature to "insist upon having the genuine," "refuse all substitutes," etc. It must be a source of gratification to the retailers to observe that some of the former big sellers are now compelled to look to their *foreign* trade to keep them "off the rocks."

On the other hand, some manufacturers have awoke to the fact that there are great possibilities and immense advantages in keeping on friendly terms with the retailer. The logical result is that their advertising appropriations are smaller and infinitely more effective. The manufacturer who does not court the good will and friendly interest and mutual co-operation of the great army of retailers is permitting a leak to exist in his pocketbook which has no right to be there.

Let us give an illustration to make our contention clear: A manufacturer who is spending $1,500 per month on magazine advertising sent a hotel attendant out to purchase a hardware specialty he was advertising. The attendant visited eight different stores before he succeeded in finding what he wanted. The manufacturer was surprised. But he had done practically nothing to cultivate the good will of the hardware man. The latter admitted that he had had a few calls for the article but was holding off to see what proposition the manufacturer was going to make him so that he could handle the article with profit to himself.

In other words, the manufacturer was paying for advertising in publications aggregating a circulation of 8,000,000 copies per month and yet anybody who read these advertisements and went to seven out of eight stores to procure the article was unable to do so. What an immense, extravagant waste that is!

The time will never come when the manufacturer

can afford to ignore the retailer. The retailer has too many friends who trust him and take his advice. It is a base, unfounded assertion to declare that the retailer does not care a rap what he sells; that he is interested only in the profits he makes. It is an asinine suggestion. Why, the retailer is in far closer personal relation to the consumer than is the manufacturer or than the manufacturer ever can be.

Hundreds of people go into a store and ask the retailer about this or that article. "What does he know about this?" "Is it the best?" etc.—and the retailer knowing that if he recommends something against the customer's best interest he will lose his trade. He is not so short-sighted as to advise a customer to buy an inferior article merely because the profit is slightly larger. He can be trusted to have common sense enough to advise to the best of his knowledge.

Once in a while some misguided manufacturer makes an attack upon the retailer, but the retailer can stand it. The manufacturer always loses. It would be far better if the manufacturer were to point out to the retailers how they are being hoodwinked by unscrupulous imitators.

Therefore, we say to the manufacturer: Appeal to the retailer, direct some portion of your advertising to him. You will find it will pay and pay handsomely.

Unprecedented Prosperity.

LOOK in what direction you may, you cannot fail to see signs of the wonderful prosperity of the United States. That building interests are prosperous is apparent on every side, and this is true not only of the cities but also of the smaller places. Steel and iron, according to the mercantile agencies and other reliable sources of information, are on an exceptionally strong financial basis. There are sufficient advance orders on hand to indicate that business will continue good for a year at least. The only obstacle in the field of building operations is the enhanced cost of materials and the high rates demanded by labor.

The farmer wears the "smile that won't come off." The Hessian fly, the army worm and other disturbers of rural peace cannot cause him any anxiety. The weekly trade review says: "Underlying the confidence in the future course of business are the magnificent crop prospects and the prosperous agricultural interests." There are some, perhaps, who possess a tendency to underrate the importance of the farmer, but the agricultural interests are the barometer of trade. If the farming community is prospering, other business conditions feel the upward impulse.

Freight movements have reached a tonnage never before recorded; this is indicative of the increasing wealth of the rail and lake carriers. This is true not only of Chicago and the territory immediately tributary to it but also of the Central West and, in point of fact, of the whole country. The express companies and carriers generally find their energies taxed in order to meet their responsibilities in a time of overwhelming good fortune.

To go more into details, the reviewers of trade say that "the examination of the reports of business during the first half of 1906, now practically complete, show clearly that the six months made the most prosperous period in the history of the nation." And, if this is not enough to fill the cup of happiness, they give the even more pleasing assurance that "unless heavy cancellations occur, the last half of the year will establish a still higher record."

We ought to feel happy and every American should feel that his lines are cast in very pleasant places. There are no clouds on the international horizon, peace and prosperity surround us; the man who loves to tell of his country's greatness has now an unprecedented opportunity.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

It is admittedly a woman's prerogative to have the last word, but we all of us have the right to grumble. What a world this would be if we had nothing to grumble about. If a state of affairs could be brought about that would absolutely put an end to grumbling it is my firm belief that the world would not endure a fortnight. Have you ever stopped to consider what it would mean to be without the opportunity to grumble? It is the only solace and comfort for misspent energy and in grumbling, those to whom success has come, find justification for many things.

I have no doubt that I can confine my grumbling within reasonable limits and no doubt you share the same conviction, but if we were to attempt to abolish it entirely those of us who did not succumb to our struggles with ourselves would die of ennui, when we did succeed in our purpose.

Do you know what would happen to a man who refrained for a very long time period from reasonable indulgence in grumbling, expressed or confined within the limits of his own brain? Why, he would find that the edge of his intellect was becoming dulled. I often wonder whether the right to grumble is a privilege conferred solely upon the human race; personally I am inclined to the opinion that the so-called lower orders have some means of giving vent to their feelings, but of course that is impossible of proof. There is no doubt, however, that a certain amount of grumbling is conducive to a man's happiness.

* * *

Has it ever occurred to you, Reader, that each of us lives only a very small part of life? You occasionally hear it said that this or that man has a broad, comprehensive mind; that the boundaries of his intellect are practically limitless, meaning by that presumably that he keeps himself open for the reception of ideas along varied lines. But after all it must be admitted that such a one may be said to be living a broad life only by comparison with the more circumscribed lives of his neighbors. The man may be a great merchant and possess a knowledge of art, literature and science, and he may pursue all of these as a diversion or with

a more earnest purpose and may include many other pursuits and would no doubt be described as broad in his interests.

But if you will stop to consider for one moment all those varied vocations to which the people of this world are consecrated it must be confessed that the use of the word "broad" is inapt. There is always food for thought in the fact that the greatest brain can absorb but a very minute portion of the world's knowledge.

* * *

"THE Art of Knowing How to be Idle" is the title of a book about to be written in England. I must confess that it is a good thing to know how to be properly lazy.

There are three kinds of rest; sleep, which is perfect rest; change of occupation, which is not so much rest as stimulation, and finally idleness.

It is contended that to be able to idle at will is the most valuable gift and one that is becoming rarer every day. It is refreshing to find a real idler, a scientific idler. To the man in a hurry there is no more annoying spectacle than that of another man engaged in taking life easy.

The art of loafing is not properly understood by the majority of people. Much has been written on the subject and experts disagree. One says that the great art of loafing is to do the easiest thing, to work along lines of least resistance, and that sometimes it is easier to work than to be idle.

That is the secret of the whole method. The superficial idler thinks it is his duty to be idle on all occasions but this is an erroneous view to take of the subject. A man sometimes feels as though he must be up and doing. If he sternly represses this feeling his peace of mind is upset; ergo, perfect idleness is impossible. A really scientific idler is the man who can idle at will.

* * *

THIS is the time of year when the papers teem with fisherman stories. In place of a fisherman's story, however, I heard recently a molder's yarn, which is perhaps worthy of repetition. It happened at the foundry of the Pittsburgh Stove Company. It was the recess hour and those gathered together were telling of the wonderful feats they had performed in their respective trades. Some held records for making air-tight bases for stoves, others had displayed great ability in making the deep superheating one-piece burners for the "Good Luck" gas ranges. Being human, they could not refrain from proudly referring to these records; in one corner quietly eating his lunch sat a little man listening attentively to what was being said: Taking advantage of a moment's silence, he said: "You fellows have certainly done some wonderful work and you remind me of a little experience of my own. It happened when I was working for the 'New Castle' shop. The foreman one day said to me: 'Bill, I want a duplicate set of castings off that little locomotive, exhibited in the Pennsylvania waiting room. Can you arrange it for me?' The agent and I being from the same town, were on good terms, so I managed to borrow that model engine, put her in the sand and cast, at one operation, a complete working locomotive, an exact duplicate of the one I had borrowed. Unfortunately when they took it to the sand blast machine the fellow there mistook the smoke stack of the 'Gate Scrap' and knocked it off. That spoiled the whole job and I have not been able to borrow the model since. Such little tricks of molding come easy to me."

There was deep silence as he told his story and for several minutes after he had finished not a sound was uttered. Then, of one accord, the men all rose to their feet and silently returned to work. Their hearts were too full for words.

* * *

Under the startling caption, "Exit the Poster," a newspaper editorial recently announced that investigations made by the American Scenic and Historic Preservation Society "furnish ground for hope that the display of paint and posters, for years a disgrace to the American landscape, is about to pass out." So far as I have observed, however, it is not passing with any lightning-like celerity. There are still a large number of boardings dotting the landscape and there is no difficulty in finding them. True, the unpicturesque billboard rudely jars the sensibilities of many of us; but we can't get away from the fact that there are still advertisers who believe in the economical value of the billboard. Farewell tears over the exit of the poster are as yet premature.

* * *

A new note has been sounded in advertising; it is apparently based on the idea that "honesty is the best policy," and it must be admitted that it carries that time honored proposition to the limit. The first advertisement of the new school appeared recently in the London *Times*. It reads thus:

"A hopelessly incompetent fool, with no qualifications, social or intellectual, totally devoid of knowledge on any conceivable subject, thoroughly indolent and untrustworthy, is desirous of obtaining a remunerative post in any capacity. Address I. F."

It is no doubt true that the public has grown tired of superlative virtues and any advertiser with nerve enough to try the new tack might have good cause for surprise at the results he would obtain. For instance, might there not be great possibilities in an advertisement built according to this plan:

OntheBum.—The very worst steel (so called) range ever made. Totally devoid of heating properties and as unreliable as it can possibly be made. It costs about $10 to make and sells for $50. Those buying it do so at their own risk. We are simply out for the money.

I would not advise spending very much money on trying out this suggestion, but I should like to see it put to the test.

* * *

Sing and the world will greet you,
Kick and you're left alone,
And from noon to noon
You're out of tune
And trouble has found a home.
Grumble and sorrow commences,
Be cheerful and life is sweet;
There's success in piles
For the man who smiles,
And life is one gay song.

News Siftings

The Lincoln Stove & Range Company of Fremont, Ohio, will ship between now and September 1st over 15,000 stoves and ranges. They have orders for 7,000 Oak, 2,000 Hot Blast, 2,000 heaters and 4,000 ranges.

A. C. Barler of 104-106 Lake Street, Chicago, Illinois, has issued a couple of advertising postals which are exceedingly artistic. One shows an illustration of two little girls around an "Ideal Oil Heater" and is entitled "A Bed Time Story." The other is a cut of the "Ideal" and in the opposite corner two children are warming their hands. Each card bears some succinct reading matter relating to the Ideal Heater. The cards are printed upon good quality paper and are very attractive.

A charter has just been granted to what is known as the Pottsville Foundry and Stove Company, Pottsville, Pa., with a capital of $25,000 fully paid. It is the intention to do a general foundry business in addition to the manufacturing of stoves, and in conjunction with this business the company is running a tin roofing and spouting department, as well as a plumbing department. The officers of the concern are S. Forry Laucks, president; Charles F. Derr, secretary and treasurer; and F. S. MacMullen, manager. Mr. Laucks is also president of the York Foundry and Machine Company and vice president, general manager and treasurer of the York Safe and Lock Company, both of York, Pa. Since opening up the plant in the beginning of June the company's foundry reports active operation. The original company has been operated since 1848, first as the J. & S. Derr Stove Works and later as the Simon Derr Stove Works.

YALE STOVE PIPE.

The Yale Stove Pipe is an article that gives satisfaction wherever used. It is made of a very high grade of uniform color blue polished steel and is coated to prevent rusting. It is made in all sizes and is packed 25 and 50 joints to the crate. It is manufactured by Hemp & Company, Second and Chouteau Avenues, St. Louis, Missouri, and full particulars regarding this stove pipe will be gladly furnished to any one mentioning THE AMERICAN ARTISAN.

THE QUICK MEAL STEEL RANGES.

The Ringen Stove Company, 819-831 Chouteau avenue, St. Louis, Missouri, are the manufacturers of the Quick Meal Steel Ranges, in connection with which they are sending out a little booklet. This range is the company's All Steel Range, every part except the top plate and the fire box being made of steel. There can be no breakage in handling, the range is lighter, yet stronger, and considerable money is saved on freight charges. This range is built with but few rivets and has Automatic Expansion Tubes and is a range that will sell and is first class in every respect. The company will be glad to furnish a copy of this booklet to any one mentioning THE AMERICAN ARTISAN.

A NEW LINE OF CHAMPIONS.

The Champion Steel Range Company of Cleveland, Ohio, have put out a new line of hot blast heating stoves. It possesses a triangular bar easy to clean, cleans thoroughly, draws out the front complete in a frame for repairs. When the grate is shaken no door or slide is open, all is closed, no dust or ashes flying about the room. These stoves burn either hard or soft coal or wood. The company will be glad to forward a copy of their latest catalogue to dealers mentioning THE AMERICAN ARTISAN.

DIXON'S GRAPHITE BRUSHES.

The Joseph Dixon Crucible Company of Jersey City, New Jersey, have issued a little booklet dealing with the question of graphite brushes. The subject of graphite brushes is a very broad one and those interested in the subject of electricity will find this booklet a fund of information. The booklet gives a summary of the conclusions deduced from tests and observations made by Professor Albert F. Ganz of Stevens Institute. A copy of this booklet will be gladly sent by the company to any one mentioning THE AMERICAN ARTISAN.

COLE'S PATENT HIGH OVEN RANGE.

The Cole Manufacturing Company of 3218 South Western avenue, Chicago, have recently put on the market a new range which the company claim is destined to prove one of the biggest sellers in the history of the stove business. This new original specialty has been thoroughly tested by more than one hundred of the company's agents in various parts of the country, some of whom have sent in three or four orders since giving it a thorough test. It has a patent hot blast combustion and air tight construction, and is a great fuel saver. The high oven is a great convenience; it saves stooping and backache, the oven is always under perfect control and it occupies much less space on the kitchen floor than any other range. The company guarantees the baking qualities equal to any other range at any price and claims that it is more economical with hard coal and crushed coke than any other range made.

The company want one good exclusive agent in every town. Those writing should mention THE AMERICAN ARTISAN.

NEW GASOLENE STOVE.

Mr. A. F. Demory of Houston, Texas, claims to have invented a gasolene stove which is absolutely non-explosive. Experiments have been made lately at Houston and he has shown that the gasolene reservoir may be covered with oil and may be set afire and yet the tank will not explode. In the presence of a number of interested spectators Mr. Demory piled fire around the tank, but no explosion ensued. The non-explosive gasolene reservoir is not a patented article

and will not be patented. In principle it consists of two tanks connected by small piping. One of these tanks contains water while the other holds the gasolene. The arrangement of the piping is such that the gasolene tank is always full, the pressure beneath the water forcing the oil to the top and thence into the burner. As long as there are no vacant air interstices in the gasolene reservoir, it is impossible that the tank can explode.

THE NEVER FAIL HEATER.

A stove with good talking and selling points is a comparatively easy stove to sell. The Never Fail heater, manufactured by the Channon-Emery Stove Company of Quincy, Illinois, is a heater that is claimed to be perfect in heater construction. It has a hot blast system that feeds the superheated air all around in a ring encircling the surface of the fire, accomplishing controllable and perfect combustion. It has a hot air ventiduct, roomy, straight lined and thoroughly ample and practical. The same heater is also furnished without a ventiduct. Its ornamentation is superb, the nickeling being very ample. It burns coal, wood or lignite. The company claim it is a superior heater and a perfect worker. They will be glad to forward a copy of their latest catalogue to any one mentioning THE AMERICAN ARTISAN.

THE NEW MAGEE.

The new 1906 model "Magee Boston" heater, "B" series, possesses several new features that give an increase both in efficiency and conveneince of operation. The double feed door with large feed mouth, the revertible flue radiator has a very large surface together with direct and indirect smoke flue connections and clean-out opening. Every detail makes for convenience, cleanliness and fuel economy. The well-established high standard of Magee construction is combined with a design that presents the fewest possible joints and gives ample stability to insure long and severe service. The Magee Furnace Company, of 38 Union street, Boston, Massachusetts, or their Western agents, The Lott-Burton Company, 86 Lake street, Chicago, Illinois, will be glad to forward a copy of their catalogue to dealers mentioning THE AMERICAN ARTISAN.

THE FOSTER STOVE COMPANY.

The Foster Stove Company of Ironton, Ohio, have issued a supplement of catalogue number 15. This catalogue deals with the extensive line of steel ranges made by this concern, each range being fully illustrated, dimensions and prices set forth. The "Prize" line of steel ranges is one of which the company is justly proud. They have embodied all late improvements of practical value, looking to quality rather than to price, yet are able to sell them at an attractive price.

"Foster's Winner" is a very handsome range; the body is made of heavy Wellsville polished steel, riveted every two inches and asbestos lined throughout. It has all the latest improvements. It is a range of great merit. The various other brands of ranges made by the Foster Stove Company are done full justice to in the supplementary catalogue. Mention may be made of "Schout's Economist." The company claim it is the best medium priced and most economical hard coal stove made. A sectional view of the stove is given to enable the reader to understand the principles upon which this stove is built. The company will be glad to forward a copy of this supplementary catalogue to any one mentioning THE AMERICAN ARTISAN.

MINNESOTA AND BINDER TWINE.

The Minnesota farmers are between "the devil and the deep sea." It is a question, says The Chicago Daily Commercial, of their paying tribute to the "greaser" Trust of Yucatan and making their own twine or succumbing to the assaults of their own American Binder Twine Trust. Neither alternative is satisfactory; both involve submission to the very foe they have been endeavoring for sixteen years to vanquish.

As far back as 1891 the National Cordage Company had advanced the price of pure Sisal twine to 18 cents in Minnesota, although at the same time they had hammered the price of raw Sisal down to 2½ cents a pound.

The state began to manufacture twine. At first it made soft Flax twine, which was very satisfactory but the cost was too great. Then it began to make hard Fibre twine from Manila and Sisal and is now making 13,000,000 pounds a year at a good profit. The great competitor to-day, the antagonist upon which the batteries of the farmers of Minnesota are trained, is the International Harvester Company. This company is the largest single producer of binder twine in the world. It could not sell Sisal twine in Minnesota in competition with the state-made twine because the state authorities figured the labor cost of the convicts at 63 cents per day and the International Harvester Company cannot get labor at that price.

The International people, however, secured a process which is secret, making the cost of producing flax twine very much less than with the process formerly used. A factory was established at St. Paul this year and the International Harvester Company has sold 10,000,000 pounds of flax twine at ½ cent under the state price for Sisal twine. The average annual requirement of the farmers is close to 23,000,000 pounds of twine for each harvest and this year they have benefited both by the prison-made and by the flax twine. Between the two they have secured the whole supply at or below the prison price. They took what the prison made and then paid several cents more for Sisal twine made by outside factories.

The International Harvester Company, however, wants to sell all the binder twine used in the state and is dealing the cards for that purpose. The establishment of the flax twine factory is a master stroke, inasmuch as the farmers raise the flax. They do not raise Sisal and have to buy it from the trust. Sisal is the fiber of the American aloe and is found in

Yucatan. At one time, as mentioned above, it was sold in New York at 2½ cents a pound. Now the trust in Yucatan can get any price it cares to ask. They hold the crop until the farmer is ready to pay their price. When the state of Minnesota failed in its attempt to make flax twine, it tried to make a twine of paper. It was too smooth and slippery and the machines would not tie it into a knot. Nobody but the International people knows what it costs them to make flax twine by their new method, but they are selling the flax twine at ½ cent under the prison price for Sisal.

The question that is now agitating the farmers is how long the International Harvester Company will continue to sell at this price. The trust organs assure their readers that the International Harvester people are gentlemen and that they will always pay the farmers the highest market price for their flax and sell the twine at the lowest possible figure. But the farmers are wondering exactly what is going to happen.

THE A-B POLISH COMPANY'S LINE.

The A-B Polish Company, of 14 Haddon Avenue, Chicago, Illinois, a corporation recently succeeding to the business of Ayling Brothers, whose goods have been favorably known to the hardware and stove trade for many years, are offering an exceptionally good line of stove and metal polishes in liquid paste and dry polish forms, iron

enamels, harness and leather polish and a variety of polishes for other uses, the list making up a complete, well ordered line.

The company's goods are of excellent manufacture and excellent reputation in the trade, and are put up in such convenient form and labeled so brightly and attractively as to make them distinctly desirable as shelf goods.

Stove dealers who use much stove polish in blacking their stoves for display and for delivery should be interested in their patented bulk dry stove polish sold in five pound wooden boxes and designed expressly for stove dealers' use in the manner herein indicated. They claim that "a five pound box will do more work than fifteen pounds of the best paste polish"; is black, brilliant, durable and easy to use. There is no waste to it. The user mixes what he wants and if it dries up it mixes again and again. They claim this is the best and most economical stove dealers' polish made and that its price to dealers makes it a distinct economy. Write them for their handsome booklet on polishes and polishing and mention THE AMERICAN ARTISAN.

STOVES AND RANGES FOR SPAIN.

Heating apparatus for houses, such as oil or gas stoves, can be successfully introduced in Corunna, Spain, according to British investigations. The houses there are almost all built without chimneys, and the buildings not being of the first class people suffer considerably during the autumn and winter months from cold. The method hitherto in greatest favor for keeping rooms warm has been the old fashioned charcoal brazier, but this is falling into disfavor. Many small gas stoves or petroleum lamp stoves are in use, but petroleum is very dear and the small gas stoves are not very satisfactory. A good portable stove consuming not much fuel would probably have considerable success in the long run, although it might require some time to get it into general favor, as the Spaniards are very conservative in their habits. The same remarks would apply also to good kitchen ranges. Those in use at presnt are either Spanish or French make, and are placed on a strong marble or stone slab raised about two and one-half feet from the ground under the open chimney. The ranges themselves are about one and one-half feet deep by three feet in length, leaving very little space for an oven. These stoves are also proportionately very dear, as the average price for an ordinary sized one is about $30 to $35.

WATER WAY OR RAIL WAY.

The Detroit & Buffalo Steam Boat Company, 6 Wayne Street, Detroit, Michigan, gives notice that all classes of tickets reading via the Michigan Central, Wabash and Grand Trunk Railways between Detroit and Buffalo, in either direction, are available for transportation on D. & B. Daily Line Steamers. This arrangement enables the traveler between Eastern and Western states to forsake the hot, dusty cars and enjoy the delights of a cool night's rest en route. The company will gladly furnish a booklet if a stamp is sent for this purpose.

GOOD RESULTS FROM AN AD IN THE AMERICAN ARTISAN.

Mr. H. E. Clutlerhan of South Bend, Indiana, recently advertised in THE AMERICAN ARTISAN for a position as tinner. He informs us that he has received 37 replies to his advertisement and has secured a good position. He is naturally very much pleased with the result of his advertisement.

Don't kick if you find the bright idea you thought out last year materialized by some practical fellow today. A bright idea that goes no further than your head is like seed above ground—you never know how good or how bad they are until they are planted, cultivated and brought to fruitage.

The man who thinks and molds his thoughts into actions before they are cold, generally finds himself well up in the firing line of the business battle.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 4 to 45 inclusive.

Hancock and Koerner of Pekin, Illinois, have closed a lease on the new building which, when completed, will give them one of the finest stores in that section.

A company has been formed in Traer, Iowa, to handle the washing machine invented by Frank Kostlan. The capital of the company will be $15,000. Mr. Kostlan will remain with the company as assistant manager and foreman to the mechanical department.

The Jennison Hardware Company of Bay City, Michigan, have just secured a lease of the adjoining two stores, basement and upper stories. This will give the company use of the entire building, having a frontage of one hundred feet, a depth of ninety feet and four stories and a half. The entire block will be altered to the future needs of the concern and when the changes are made it will be one of the most complete establishments of this kind in the country.

The directors of the Piedmont Hardware Company, of Danville, Virginia, held their annual meeting July 20th, and the report of the president and general manager shows that the past year was the most gratifying in the history of the concern. It is very satisfactory to note the progress of the first effort in Danville to establish an exclusively wholesale hardware business which is now conducted in the company's own brick building located on Craighead street near the depot.

The Eagle Cooperage Works of Circleville, Ohio, will have an elegant display at the House Furnishing Goods Exposition to be held in Madison Square Garden, New York City, from August 6th to August 11th. They are erecting a pavilion which they hope will be the most artistic in the big building; they will be located at booth number 141. A carload of Eagle mop wringers, Ohio detachable mops and Rex dish mops was shipped to New York a few days ago and Mr. Fritch, who designed the pavilion, has for the past two weeks been busy preparing the display.

AKRON ECLIPSE LEVEL.

The Baker-McMillen Company of Akron, Ohio, are introducing a new mason's level. They are endeavoring to meet the demand from all parts for a plumb rule and level embodying the following points:

It must be light in weight; it must be 4 feet long; it must have two plumbs; it must have a good hand grip; it must have glasses clearly exposed; it must be firmly set but adjustable, and finally it must be low in price. The Akron Eclipse level, they claim, meets all these demands and they will be glad to forward more detail particulars to dealers mentioning THE AMERICAN ARTISAN.

WANTS CATALOGUES.

The Macclesfield Company of Tarboro, North Carolina, want catalogues and prices on all lines of hardware.

A BIG RAZOR CONTRACT.

A Sheffield correspondent writes that tenders for 80,000 razors, with bone handles, are being invited by the British army clothing department. The blades are to be hand forged and marked as such. The sample submitted to the firms is slightly hollow ground, but there is no stipulation as to whether the grinding shall be done by hand or by machine.

BOLT AND SCREW CASE.

The attention of hardware dealers is called to the very handsome line of Bolt and Screw Cases manufactured by the American Bolt and Screw Case Company of Dayton, Ohio. This article in addition to being a necessity in a well ordered store is a handsome piece of furniture. The company will be glad to forward a descriptive booklet to any one mentioning THE AMERICAN ARTISAN.

WHITE LEAD.

The Enterprise Paint Manufacturing Company of Van Buren and Peoria streets, Chicago, Illinois, manufactures a white lead that is better than strictly pure white lead. It is put up in steel kegs and is undoubtedly a first class line to handle. The company desire exclusive agents and will be glad to forward full particulars to any dealer mentioning THE AMERICAN ARTISAN.

THE NEW UNIVERSAL SQUARE.

The Duby & Shinn Manufacturing Company, Incorporated, of 34 East 29th Street, New York City, are the manufacturers of the "New Universal Square New Style." It is made in three sizes—number 6, 6-inch; number 10, 10-inch, and number 13, 13-inch. It has the following combination: Tri, pitch cut, hip and valley cut and miter square. Draws circles, gauges lumber; octagonal cuts laying out mortise and tenons and can be used for innumerable other purposes. It is made of the best steel and is light; it is guaranteed to be absolutely true. The company will be glad to forward full particulars to any one mentioning THE AMERICAN ARTISAN.

GOOD HACK SAWS.

Goodell-Pratt & Company of Greenfield, Massachusetts, manufacture a line of hack saws which are famous for their temper and cut. What constitutes a good hack saw blade is a question often asked and seldom satisfactorily answered. To the sight the various makes of this article are quite similar in appearance, but they are often found to differ vastly in cutting and wearing qualities. It is desirable that the blade should be as thin as possible, for a thick blade consumes time and material.

Goodell-Pratt hack saw blades are made from the finest quality of hot-rolled sheet steel; they are sharpened and set by a peculiar process which makes them remarkably fast cutters. The company makes an

especially complete line of these goods and they will be glad to forward a copy of their latest catalogue and furnish electrotypes for advertising purposes to those mentioning THE AMERICAN ARTISAN.

ATKINS SILVER STEEL SAWS.

The name Atkins on a saw is evidence of its being made of the finest crucible tool steel, and superior workmanship. With each saw that is sent out a guarantee is given that the saw is as true as it is possible to make it and free from flaws and seams. This company manufactures saws for every conceivable purpose and they will be glad to forward a copy of their latest catalogue to any one mentioning THE AMERICAN ARTISAN.

MARLIN'S POPULAR RIFLES.

The Marlin Firearms Company of New Haven, Connecticut, have issued a seasonable folder. The Marlin products are too well known to need introduction; they have an enviable reputation among sportsmen. Their model number 16 with 26 or 28-inch barrels with full pistol grip and rubber buttplate is a very handsome firearm and is the only lightweight repeater in the world. One of the great features of the Marlin guns is that you sight over the center of your load every time (not off to one side) and your load follows directly the line of sight.

The model number 19, made of special smokeless steel, is claimed to be superior to any double barreled gun made. Using a single barrel instead of two and the rib, the repeater's barrel has twice as much metal, is twice as strong and shoots much harder and closer; the field of vision is not obstructed as much as it would be with two barrels and the sight is caught twice as quickly.

All these guns are fully described in the 1906 catalogue and those desiring special shotgun information will find the company glad to furnish it, if THE AMERICAN ARTISAN is mentioned.

SCREWLESS SPRINGSET SHEARS AND SCISSORS.

The Davies Automatic Shear Company, New York City, are the manufacturers of a new line of shears and scissors which are proving very popular. They are screwless, springset shears and scissors and as their name implies they are absolutely screwless and are set by means of an adjustable spring plate to the desired tension. The plate edges are held together automatically with an even tension throughout their cutting length, the action is easy, smooth and very agreeable and this is not simply for a brief period but throughout the life of the shears.

The inherent defects of the old-fashioned screw connected shears are well known. All the faults, obvious or latent, of screw connected shears have been apparently avoided in the construction of the Screwless, Spring-set Shears which are perfectly simple yet simply perfect.

These shears are largely self-sharpening and are made of the finest nickel-plated steel. The manufacturers will be glad to furnish a copy of their catalogue to any one mentioning THE AMERICAN ARTISAN.

SCALES.

"Twenty-five dollars on five tons" is what Beckman Brothers, scale manufacturers, Des Moines, Iowa, claim to be able to save their customers. They manufacture a very extensive and diversified line of weighing machines which are fully illustrated and described in their catalogue. Their new pattern of hopper scales is built with especially heavy levers and is designed for use where vertical space is valuable and the scale must take up the least depth possible. It can be furnished in practically every dimension and of almost any capacity. Their Dormant Warehouse Scale, with two iron pillars, double brass beam, is also worthy of particular mention. They manufacture every conceivable kind of scales and they will be glad to forward a copy of their catalogue to those mentioning THE AMERICAN ARTISAN.

STAFF OR DASH CHURN.

The Richmond Cedar Works of Richmond, Virginia, are the manufacturers of the churn shown in our illustration. They safely recommend them as being the best dash churns made. They make six

Dash Churn.

sizes of white cedar and four sizes of red cedar churns. Cedar is peculiarly adopted for milk and butter purposes. Knowing the hard usage of a churn and necessity of the hoop always being tight, the company have adopted their electric hoop on this churn. The wire is heavily galvanized and the top hoop, although a flat one, is of galvanized iron. The company will be glad to forward full particulars and prices to any one mentioning THE AMERICAN ARTISAN.

THE BUGGY FIGHT IN WASHINGTON.

Judge Edward Whitson, sitting in the federal court for the Spokane district, has granted a blanket injunction at the instance of the Spaulding Manufacturing Company of Grinnell, Ia., restraining the Inland Empire Implement & Hardware Dealers' Association, E. W. Evenson, formerly its secretary; M. E.

Hay, E. E. Lucas, S. P. Cooke, R. J. Heath of Wilbur, Wash., and John Doe and Richard Roe from "preceding, following in such a manner as to hinder, obstruct, harass or annoy or intimidate" the representatives of the complaining concern. The arguments on the question of making the restrainer a permanent order will be heard in August.

This action is the result of a decision of the implement and hardware dealers of the inland empire to fight eastern buggy and stove manufacturers, who are charged with sending their products into the Spokane country and peddling them direct to farmers and ranchers. The Inland Empire Association, to whose notice the invasion of the eastern makers was brought some time ago, has set aside a big protection fund and a lively battle will follow. Officials of the association say there are more than 70 canvassers for eastern houses in the field, which they claim rightfully belongs to the local dealers, and it is purposed to rout them.

The Spaulding company is also eager to clear the atmosphere, claiming that its representatives have a right to sell direct to the consumer, without the intervention of the dealers.

Washington sends between $250,000 and $275,000 east every year, the local dealers say, and they believe it is their duty to protect themselves against peddlers. The buggy business has been made the subject of a state license of $200 in the interest of local trade. Judge Warren of the Superior Court of Davenport recently declared it illegal, but Judge Huneke of the Superior Court of Spokane county held shortly afterward that it is constitutional and can be enforced.

THE WHITE ROSE WASHER.

One of the most phenomenal sellers ever placed on the market is the "White Rose" washer, manufactured by the White Lily Washer Company of Toledo, Ohio, and Davenport, Iowa. This washer is ball bearing, reducing the friction throughout to a minimum, and will stand the action of water a lifetime. It is conceded to be one of the easiest running washers on the market. The company will be glad to forward full particulars to any dealer interested and also make arrangements for exclusive agencies wherever they are not already represented. When writing, kindly mention THE AMERICAN ARTISAN.

LIGHTNING RODS.

The Security Lightning Rod Company of Burlington, Wisconsin, are the manufacturers of the Security Copper Tube Lightning Rod. This rod has received the highest award, diploma and medal from the Royal Academy of Science and Arts at Paris, France, April 30, 1897. It has an automatic water supply, insuring a perfect ground connection at all times, which is the most important part of any rod. It has a patent coupling of pure copper, which makes the joint the strongest part of the rod. The company will give a guarantee on their rods for twenty years and will refund all money received for the rods and pay $500 reward to find a building burned by lightning with their copper tube rods on in circuit form. They have made this offer for the past fourteen years and the reward has never been claimed, thus proving that the rods are sure and perfect protection against lightning. The company will be glad to forward their latest literature on the subject of lightning rod protection to any one mentioning THE AMERICAN ARTISAN.

FIRE AT PLANT OF STANDARD CHAIN COMPANY.

The plant of the Standard Chain Company, located at St. Mary's, Ohio, was the scene of a disastrous fire on July 21. A large brick forge shop, together with several other buildings were totally destroyed. As the company operates a number of other plants in various cities some of the St. Mary's chain makers will be transferred to the Braddock plant at Pittsburg, Pa., and others to the plant at Marion, Ind. A vacant machine shop at St. Mary's was leased by the company and equipped with the necessary machinery transferred from other factories, and within one week from the time of the fire the new plant was in operation, working double turn. Owing to the other plants of the company being so well equipped with reserve machinery and its prompt action in transferring it no serious interruption occurred in the production of chain or in shipments to customers. As soon as the insurance loss is adjusted the plant will be rebuilt on an enlarged scale.

"OUR DRUMMER."

Everything that Butler Brothers do is on mammoth lines, mammoth establishments, mammoth sales and mammoth catalogues. This is apropos of their August catalogue, which has just been received. It would be easier to mention the articles used in every day life that are not mentioned than it would be to enumerate those that are mentioned and illustrated. It is simply huge and yet by no means confusing. Everything is arranged systematically, there is a complete index to departments, and from cover to cover the work is arranged on a system which enables one to find a given article without delay. Prominence is given to the Annual School Sale, on the subject of which the catalogue says: "These bargains did not 'happen'; they are here because we went gunning for them with the doubled barreled gun of 'quantities' and 'cash.' These goldenrod pages contain just the big selling, popular priced goods you need to put in the windows at sensational prices. If you will sell them as close as we are selling them, they will do for you what we are relying on them to do for us—stimulate sales of school supplies in particular and of all goods in general. At these costs you can make some profit while your competitor thinks you are selling the goods at a loss. It will pay you to study these, number by number. Every item a star bargain."

Another interesting department is "Special Features for August." August is a hard month for the merchant, but Butler Brothers contend it can be made a satisfactory month. They feature a line of goods that will undoubtedly attract people and revive their wilted buying tendency.

The catalogue shows a complete line of 5 and 10 cent bargains that bring the shoppers in crowds. Every

page of the catalogue is interesting, every page is full of bargains, and as every article is tagged in plain figures, it means no waste of time in haggling over discounts. The illustrations are exceedingly clear, enabling one to obtain a very good idea of the appearance of the article itself, and the press work is very commendable.

Butler Brothers are exponents of the "Souvenir idea"; the pages devoted to a discussion of this subject are worthy of the attentive perusal of every up to date merchant. Souvenirs are evidence in hand that the store giving them believes in and practices liberality. They are a material way of saying, "Thank you for coming this time and please come again." The occasions for giving souvenirs are as many or as few as the individual merchant may choose to make them; likewise the cause may be trifling or considerable. And the souvenirs may appeal to girls, boys, women, men, or to all of them. There is no doubt that these souvenirs draw trade and there are few communities in which every year there is not an occurrence or two that will justify the distribution of souvenirs.

Butler Brothers maintain an Expert Service Bureau which is at the service of their customers; they will gladly furnish suggestions as to what to buy for souvenirs and how much to pay for them. The experiences they have had indicate conclusively what are the best things for souvenirs and the conclusions are set forth in the "Souvenir Sale," which is a feature of this catalogue.

In the six years since the company has moved into its present main building, which in 1900 sufficed for all departments of their business, their growth has forced them to add one building after another until now they are doing business under six roofs, with establishments at Chicago, Baltimore, St. Louis, New York, St. Paul and Dallas. Final contracts have been signed for a new building in St. Louis to cover an entire block, of which possession will be obtained in something over a year. The company has been fortunate in finding a piece of ground ideally located with reference to the handling of business and convenience of visiting merchants, big enough so that their new structure will enable them to regather all the different sections under a single roof. The site is three blocks from the union depot on the main car line leading to the business section. When completed the new building will not only be larger than any other building the company now occupies under one roof, but will be the largest structure in America occupied by a single wholesale concern. An idea will be gained from this of the immensity of the Butler business and is evidence of their ability to sell at attractive prices. A copy of this August catalogue will be sent by the company to any one mentioning THE AMERICAN ARTISAN.

A NEW DAILY PAPER.

A new daily paper, a valuable adjunct to the commercial literature of Chicago, has recently made its appearance in our midst.

There has for some time past existed among business men a feeling that a daily paper devoted exclusively to the interests of the merchants was needed; a paper that would keep them in close touch with the markets, relieve them of uncertainty and make guessing as to market prices a thing of the past. This want has now been filled by the appearance of the Chicago Daily Commercial.

To the originator of the idea, Mr. Milton Bucklin, its able editor, great credit is due for his pluck in starting this new paper and carrying it to a successful issue. A glance at the paper will satisfy one of its value to the business community; it is a paper that no progressive business man can afford to be without. In addition to giving the latest market quotations on every commodity, it is brimful of pointers valuable to the business man. Advertising is treated in all its various phases; articles on Retail Advertising are written by experts and expound the latest views on the subject which should prove a boon to the retailer.

There is always room for something good, and the Chicago Daily Commercial has undoubtedly come to stay. We extend to it a most cordial welcome.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Columbus, Ohio—Frank P. Hall Company; capital stock, $15,000; incorporators are E. M. Treat, Frank P. Hall, F. W. Crawford and others.

Buffalo, New York—Susquehanna Hardware Manufacturing Company; capital stock, $100,000; directors are O. W. Norris, C. D. Kingston and S. A. Archer.

Sioux City, Iowa—Dymond-Simmons Hardware Company; capital stock, $200,000; W. D. Simmons and others are incorporators.

Hammond, Louisiana—Hammond Hardware & Supply Company; Dr. E. L. McGehee, G. H. Brooks and R. R. Brooks.

Union, South Carolina—Bewley Hardware Company; capital stock, $20,000.

Aliceville, Kansas—R. F. Mitchell.

Sand Point, Idaho—George F. Chamberlain.

BUSINESS CHANGES.

Danville, Kentucky—Mr. Stanwood succeeds Stanwood & Haselden.

Grand Rapids, Michigan—Heth Brothers succeed D. E. Lozier.

North Freedom, Wisconsin—Lee-Radtke Hardware Company succeeds Douglas Hardware Company.

Ocilla, Georgia—Watt & Holmes Hardware Company succeeds the Ocilla Hardware Company.

Beatrice, Nebraska—J. F. Goenther succeeds Fritz Kees.

Chickasha, Indian Territory—Gilkey-Jarboe Hardware Company succeeds Spalding Mercantile Company.

Olphe, Kansas—Arnoldy & Diebolt succeed John Diebolt.

Eugene, Oregon—C. H. Pickett; removed to Springfield.

Rawlins, Wyoming—Wyoming Supply Company succeeds W. H. Wickham & Company.

MISCELLANEOUS.

Wadesboro, North Carolina—Planters' Hardware Company; new building.

Thompson, Iowa—Osheim & Anderson; new building.

Canton, Illinois—Gardiner Hardware Company; increased capital stock from $3,000 to $5,000.

San Antonio, Texas—Heusinger & Company; destroyed by fire.

Atlanta, Georgia—King Hardware Company; new building.

Peoria, Illinois—Hancock & Koerner; new location.

Boonville, Kentucky—Elliser Hardware Company; destroyed by fire; loss, $4,000.

Trenton, Texas—Butler & Saunders; destroyed by fire.

St. Louis, Missouri—Anton C. Suda; deceased.

Lamar, South Carolina—James T. Warr; deceased.

Manatea, Florida—Frank Sullivan; bankruptcy.

Heating and Ventilating

THE HANDY FURNACE PIPE.

F. Meyer & Brother Company, 1311 South Adams street, Peoria, Illinois, have recently issued their number thirteen catalogue. It contains everything needed for setting hot air furnaces and illustrates more fully than did the former catalogues the many different styles of pipe, including fittings for side wall registers, adjustable elbows and adjustable joints, the latter of which the company has made for over ten years.

The "Handy Furnace Pipe," the company's specialty, is made with a special view to being safe; it has a large continuous space between the inner and outside pipe, letting a great amount of air pass between same, thus the outside pipe always remains cold, it being unnecessary to cover with asbestos or wire lath. The pipe is made in a number of lengths, and any size or shape of stack can be constructed without cutting a piece of the stack. The catalogue shows a great variety of side wall registers, round registers and pedestal registers; in fact, every kind of fittings used in connection with hot air furnaces are set forth. The catalogue is a useful one for the dealer to have and the company will be glad to forward a copy if you mention THE AMERICAN ARTISAN.

THE KELSEY WARM AIR GENERATOR.

The Kelsey Heating Company, 337-341 West Fayette street, Syracuse, New York, have issued a booklet which tells about the Kelsey warm air generator for home, church and school heating. The object of the booklet is to explain the different systems in use to-day for heating homes, churches, buildings, and while the chief object of the booklet is to champion the Kelsey warm air system of heating and ventilating, there is no disparagement of any other method or system of heating, and comparisons of their apparatus are only made so that the good reasons for the efficiency, healthfulness and economy of the Kelsey system shall be made clear to intending purchasers.

The most important requirements of a perfect heating plant are set forth and half-tone illustrations show residences in ten different states heated by the Kelsey system. A very fine illustration shows the battery system for larger residences with two number twenty-two generators under one dome casing.

The booklet makes very interesting reading and contains much information of value to those interested in heating. The company will be glad to forward a copy to anyone mentioning THE AMERICAN ARTISAN.

STEEL IN HEAVY DEMAND.

Unusually heavy demand for all kinds of steel indicates that the coming fall will be one of the most prosperous for the Pittsburgh district in years. Blast furnace operators fear now that there will be a scarcity of pig iron and prices have strengthened considerably since last week. There is not much fear among consumers that prices will continue to rise, but they now dread that the very heavy specifications will cause a shortage during the fall and early winter. All this, however, means an abundance of work for those inclined to be busy in the Pittsburgh district and gives promise of a remarkably prosperous season for the first six months of the new year.

Bessemer pig iron this week is quoted at $18 per ton, compared with $17.75 last week, and the demand is so heavy that the sale of the entire capacity of the furnaces is in sight. Foundry iron is quoted at $17, compared with $16.50 a week ago, and basic iron is held at $17.25, compared with $17 a ton a week ago. Those who feared some time ago that the summer would reveal a cessation of buying have been agreeably disappointed and instead all of the steel mills have as much as they can do for the remainder of the year and in some lines the output for next year is already contracted for.

Railroads have been unusually heavy buyers not only of rails, but of equipment, including steel cars, and the Pennsylvania has been an enormous purchaser of pipe for its elaborate system of water distribution. Many of the railroads have largely increased their orders for rails and much new work in the way of railroad construction and extension gives promise of exceptionally heavy demand upon the rail mills. The steel car makers look for the greatest year in their history from this on and the same may be said in other important lines dependent upon railroad buying.

Already indications point to a bumper crop in almost every line and the railroads in the West figure upon a heavy movement that will afford ample opportunity for great expenditures for improvements in the spring following. Many large operations are pending, the dullness in the bond market having temporarily checked financing, but with the beginning of fall a genuine boom in all directions is confidently looked for.

PARAGRAPHS.

Last January The Lennox Furnace Company, manufacturers of the Torrid Zone steel furnaces at Marshalltown, Iowa, found it necessary to erect a new foundry, thinking that this building, 70x140, would afford ample room for their increased business. This summer orders poured in from the Pacific coast and the company found themselves compelled to make another extension to accommodate this increased business.

We have recently received the catalogue of the Champion hot water combination boilers for use in hot air furnaces. The catalogue gives illustrations of these boilers together with sizes, prices and full particulars. Experience has demonstrated that most hot water furnaces fail to heat all the rooms of the building in which they are installed. Notwithstanding that they may have sufficient capacity and ample fuel is used, the heated air cannot be forced through pipes leading any considerable distance from the furnace. The Champion hot water combination boiler is made to obviate this objectionable feature. Mr Frank D. Stolz, 156 Webster avenue, Chicago, Illinois, will be glad to forward full particulars to anyone mentioning THE AMERICAN ARTISAN.

Tinshop

More Replies to the Tin Roofing Question

USES 20-INCH WAY.

To THE AMERICAN ARTISAN:

I would say that the 20-inch way is the correct method of laying a standing seam roof. I have always done my work that way, and it has always proven successful. The sheets laid the wide way give cause for trouble and will do as Mr. Kruse says, rattle and have a tendency to shortening the life of the roof. W. J. ERIKSON.

800 Jefferson Street, Joliet, Illinois.

14-INCH WAY LASTS 19 YEARS.

To THE AMERICAN ARTISAN:

My experience is that the 20-inch tin is the best, the principal reason that the 28-inch will buckle and rattle much the worse. I have known one good tinner to use 14 inch wide on his own house. It was put on in 1887, 19 years ago this summer, and it is still a good job.

Hoping this will do our friend some good, I am,

Yours very truly,

Wetmore, Kansas. F. E. JOHNSON.

PREFERS THE NARROW WAY.

To THE AMERICAN ARTISAN:

In reply to Brother Charles Kruse's letter through THE AMERICAN ARTISAN wanting information as to the best way to put on tin roofing, I would say by all means lay the tin the narrow way—that is, have the standing seams 17¼ inches apart, cleated every 6 or 7 inches; then there is not much chance for contraction or expansion, as there would be in the wide way or 25¾ between standing seams, and less apt to buckle in either if roof has. say, 1-3 or ¼ pitch.

Yours truly,

Jackson, Michigan. C. W. LECTKA.

"GOOD WORK ESSENTIAL."

To THE AMERICAN ARTISAN:

I do not understand what Chas. Kruse means by an all-steel I.C. tin roof. All standing seam steel roofs are practicable, provided you have a pitch great enough to prevent ice and snow from collecting water. I have always found that tin plate roofs seamed, cleated, well set down and soldered, give best results regardless of length and width of sheets. I have had metal roofs buckle and rattle with the wind, but owe it to conditions of lumber and weather, during time of laying same. Much will depend on shape and size of your roof. If you decide to have a combination of standing and soldered seams lay sheets across the 28-inch way; give you less number of standing seams Use seasoned lumber well nailed in dry weather and do not be sparing of your cleats, and I am sure all will end well. Yours truly.

Antioch, Illinois. W. R. WILLIAMS.

LOCK STRIPS 28-INCH WAY.

To THE AMERICAN ARTISAN:

In reply to Mr. Kruse's inquiry will say as follows: My experience with standing seam roofing has proven it to be better to lock the strips the 28-inch way, making them 20 inches wide and about 17 inches in the finished roof, as it gives the roof more fastening, making it stiffer and it is not so apt to buckle or rattle.

Hoping this information will meet Mr. Kruse's requirements, I am, yours truly,

Aberdeen, South Dakota. A. W. GRISWOLD.—

SHRINKAGE CAUSES RATTLING ROOF.

To THE AMERICAN ARTISAN:

In reply to the important inquiry of Mr. Chas. Kruse, I will call his attention to the following facts: If a tin roof was laid without any standing seams at all it would rattle very much more than if it were laid with them, because the rattle is caused by an up-and-down motion of the sheets. Now, the standing seam resists this motion, and the greater the number of seams the stiffer the roof will be. This condition undoubtedly points to the advisability of laying the tin in such a manner as to secure the greatest number of standing seams, or in 20-inch strips. I believe, however, that the rattling in the roofs is caused much oftener by the shrinkage of the boards under the tin than through the method of laying the roof. I would see to it that the boards were well seasoned, that they were dry and nailed tight to the roof joists. Then lay the roof in 20-inch strips, with no less than four cleats to every sheet, taking care that the strips were perfectly straight. If this advice is followed, I have no doubt but that a good roof will be the result.

Respectfully yours,

HUGH F. MUNRO,

1739 N. 5th St., Philadelphia, Penn.

WOULD LOCK THE SEAM THE 28-INCH WAY

To THE AMERICAN ARTISAN:

In regard to which is the proper way to put on a standing seam tin roof, would say almost any way is proper if a reasonable amount of common sense is used in doing the work. So many of the boys imagine that just one way is proper and right and all other ways are wrong. So right here is where I would correct the younger element. In our trade of to-day the most important part is to adapt ourselves to circumstances. The rules which might be good on one job might be all wrong on another and all the difference in the jobs might be the different location of a chimney or $5 or $10 on price of job.

Not knowing anything about circumstances of job in question, by Chas. Kruse, I would recommend locking seams the 28-inch way because it can be laid on roof faster and most likely give as good satisfac-

tion as if seams were locked the 20-inch way, only it is just and reasonable to suppose a roof laid with 25¾-inch strips is more likely to buckle and rattle than if laid with 17¼-inch strips.

If I wanted to do a customer a good job I would most surely fold tin the 20-inch way; while if price had anything to do with it I would use the wide strips. But while the 25¾-inch strips are not wide enough to cause any great buckling and rattling still it is well to remember the wider the strips and farther between fasteners the more likely to buckle and rattle.

There is one thing I like to do different from some of the boys in laying standing seam roof, and that is to drive my nails through the cap and between the strips of roofing instead of using the old tin cleat. I find I can do a better job, lay roof firmer and more secure in this way than with the cleat.

Hoping this may be of some little interest to some if not to Mr. Kruse, I remain, as ever,

BUNYAN E. ANDERSON.

MONARCH WASH BOILER.

The Monarch hand made wash boiler, manufactured by the Reed Manufacturing Company, Newark, New York, with branch offices in Chicago and Cincinnati, is conceded to be one of the best lines of wash boilers on the market. Quality, construction and finish are the distinguishing features of this wash boiler; they are wired with five-sixteenths hard market steel wire, drop forged, which makes the boiler strong enough to withstand a pressure of 300 pounds without deflecting one-sixteenth of an inch. They are furnished with Reed's new seamless pressed cover with one inch rim, cover and rim being made of one piece. This is a very popular line and dealers will do well to obtain a catalogue and price list from the manufacturers, who will gladly furnish same if mention is made of THE AMERICAN ARTISAN.

A CHANCE FOR GOOD TINNERS AND CORNICE MAKERS.

Shortly after the recent disaster in San Francisco telegrams were sent broadcast by the Building Trades Council that mechanics were not needed there and recommending them not to go there.

We now learn that business conditions have changed, as far as tinners and cornice makers are concerned at least. There is an active demand for them and the present wages are $5 per day in union shops. Now that rebuilding has commenced in real earnest there is work for a large number of mechanics in the lines mentioned particularly.

ROOFING CATALOGUE.

We have recently received a roofing catalogue issued by the American Sheet and Tin Plate Company of Pittsburgh, Pennsylvania. It is a delightful example of good taste and workmanship; it is printed on a very good quality of paper, the press work and illustrations being exceptionally good.

The purpose of this catalogue is to tell exclusively of the metal plating materials manufactured by this company and to enable the trade to obtain an idea of the company's facilities. Corrugated sheets have become a most popular building material. The cost is moderate, the service effective and they form a superior protection against fire and storm. They are especially popular for siding construction inasmuch as they add to the rigidity of the building on which they are placed and remove the necessity of heavy frame work and bracing.

Corrugated sheets do not rattle from expansion, contraction or wind, nor sag or buckle after a few years' use. They are made in seven widths of corrugations, either black, painted or galvanized.

The catalogue contains illustrations of the various sizes, together with the weights per square.

Special attention may be drawn to the corrugated sheets for Rock Face brick sidings and Rock Face stone sidings.

This catalogue is an exceptionally useful document and should be on the files of every dealer. When writing for a copy please mention THE AMERICAN ARTISAN.

ENCAUSTIC METAL CEILINGS.

We have recently received the catalogue of the Wheeling Corrugating Company of Wheeling, West Virginia, sole manufacturers under letters patent of Encaustic Metal Ceilings burnt on enamel.

This catalogue is a delightful exhibition of good taste and good workmanship and is a notable example of advertising typography. On every page is evidence of artistic conception and skill of execution as well as an adequate grasp of situation.

In size it is 12x9¼, printed on supercalendar paper with an exceptionally beautiful cover design in gold and green. It is indeed a fitting vehicle for the handsome line of goods made by this well known house.

A page is devoted to views of offices and works in various cities; then follow pages devoted to the product itself.

"Encaustic Metal" represents a revolution in steel ceilings. The company wish customers to bear in mind that in purchasing "Encaustic Metal" they are securing an article as distinct from old fashioned painted metal ceiling as is tile. Their only point in common is the stamped steel from which both are made. "Encaustic Metal" is a combination of steel sheets stamped in beautiful and artistic designs, and coatings of patent flexible enamel. Each coat of enamel and also the gold decorations are burned on to the metal separately under the action of intense heat. The finished product is a flexible, durable, enameled sheet that will retain its original beauty of color and finish indefinitely.

The company point out that "Encaustic Metal" is not an experiment. It has passed both that and the skeptical stage. Enamel, either porcelain or otherwise, with its hard, non-porous and highly polished surfaces, is the most desirable article to use where it is a question of exposure to wear and tear through daily use or the action of the element. Ever since metallic ceilings have come into general use through

their many points of excellence over wood and plaster, the need of a better surface than that given by paint has been generally realized and a substitute eagerly sought for. The Wheeling Corrugating Company has produced an enamel that possesses all the qualities that have for years been sought in order to manufacture a perfect ceiling. Their Patent Burned-on Decorated Enameled Metal Ceilings are the result of years' experience and research. "Encaustic Metal Ceilings" are made to last. The metal cannot rust, for it is thoroughly coated on both sides. The enamel is never brittle, but hard and elastic, retaining its luster permanently; the gold decorations will not tarish. These ceilings will add 10 per cent at least to the light and brightness of a room. In the last analysis of final cost these ceilings are not as expensive as the ordinary painted metal ceilings, for they never need redecorating, and in beauty are equaled only by frescoes. The catalogue contains some color plates, the beauty of which it is simply impossible to describe. The designs must be seen to be appreciated, the combination of tints being the work of a master hand. The company can furnish any design in any arrangement of colors and use gold decoration in the manner they deem most advantageous in bringing out and heightening the artistic effect of each design. The catalogue contains testimonials from prominent business houses from which it will be seen that some of the most progressive concerns in various parts of the country already have their places of business decorated with the "Encaustic Metal Ceilings." This catalogue is a work of art and if one is in search of beauty, durability, artistic effect, it will be found in "Encaustic Metal."

The company will be glad to forward a copy of this catalogue to dealers mentioning THE AMERICAN ARTISAN.

NOTES AND QUERIES.

GALVANIZED TUBS FOR NEW WASHING MACHINES.

From Mr. G. A. Thode, 3526 North 27th street, Omaho, Nebraska.

Where can I get galvanized tubs for new washing machines?

Ans.—Sturges & Burn Manufacturing Company, Harrison and Green Street; Friedley & Voshardt Company, 194 Mather Street; George W. Diener Manufacturing Company, 83 West Lake Street; Smith Brothers Manufacturing Company, 246 East Kinzie Street, all of Chicago; Stuber & Kuck, Peoria, Illinois; Star Enameling & Stamping Company, Pittsburgh, Pennsylvania; J. E. Whitacre Manufacturing Company, Rockford, Illinois; Hemp & Company, St. Louis, Missouri; Victor Stamping Company, Broadway, Loveland, Ohio; La Crosse Steel Roofing & Corrugating Company, La Crosse, Wisconsin; Roseland Can & Specialty Company, Rockford, Illinois, and the C. A. Peck Hardware Company, Berlin, Wisconsin.

WANTS SINGLETREES AND OTHER WAGON STOCK.

From Paxton & Gallaghar Company, Omaha, Nebraska.

Please give us the names of manufacturers of singletrees and other wagon stock.

Ans.—E. B. Adams & Son, Racine, Wisconsin; Automatic Yoke Company, Indianapolis, Indiana; Carnegie Plow & Mfg. Company, Carnegie, Pennsylvania; Mr. Thomas Elliott, Tecumseh, Michigan; Farmers' Handy Wagon Company, Saginaw, Michigan; Heider Manufacturing Company, Carroll, Iowa; Pittsburgh Tubular Steel Whiffletree Company, Pittsburgh, Pennsylvania; Racine General Mfg. Company, Racine, Wisconsin; Racine Malleable & Wrought Iron Company, Racine, Wisconsin; Sioux City Iron Company, Sioux City, Iowa; Southern Plow Company, Columbus, Georgia; Towers & Sullivan Mfg. Company, Rome, Georgia; United States Steel Whiffletree Company, Ypsilanti, Michigan, and Washburn & Wheeler, Decatur, Illinois.

LIGHTNING ROD FIXTURES AND GLASS BALLS.

From A. A. Johnson, stratford, Iowa.

Where can I procure lightning rod fixtures and glass balls?

Ans.—Reyburn, Hunter & Co., Philadelphia, Pennsylvania; E. G. Washburn & Co., 46 Cortlandt Street, New York City.

WANTS FOSTER SIDE WALL REGISTER.

From Meier Bros., Henry, Illinois.

Where can we procure Foster's Side Wall Register?

Ans.—C. H. Foster, 3403 Bell Avenue, St. Louis, Missouri.

GAS COCKS FOR GAS FIXTURES.

From E. R. Bennett, Flandreau, South Dakota.

Where can I get gas cocks for gas fixtures?

Ans.—The McRae & Roberts Company, Detroit, Michigan.

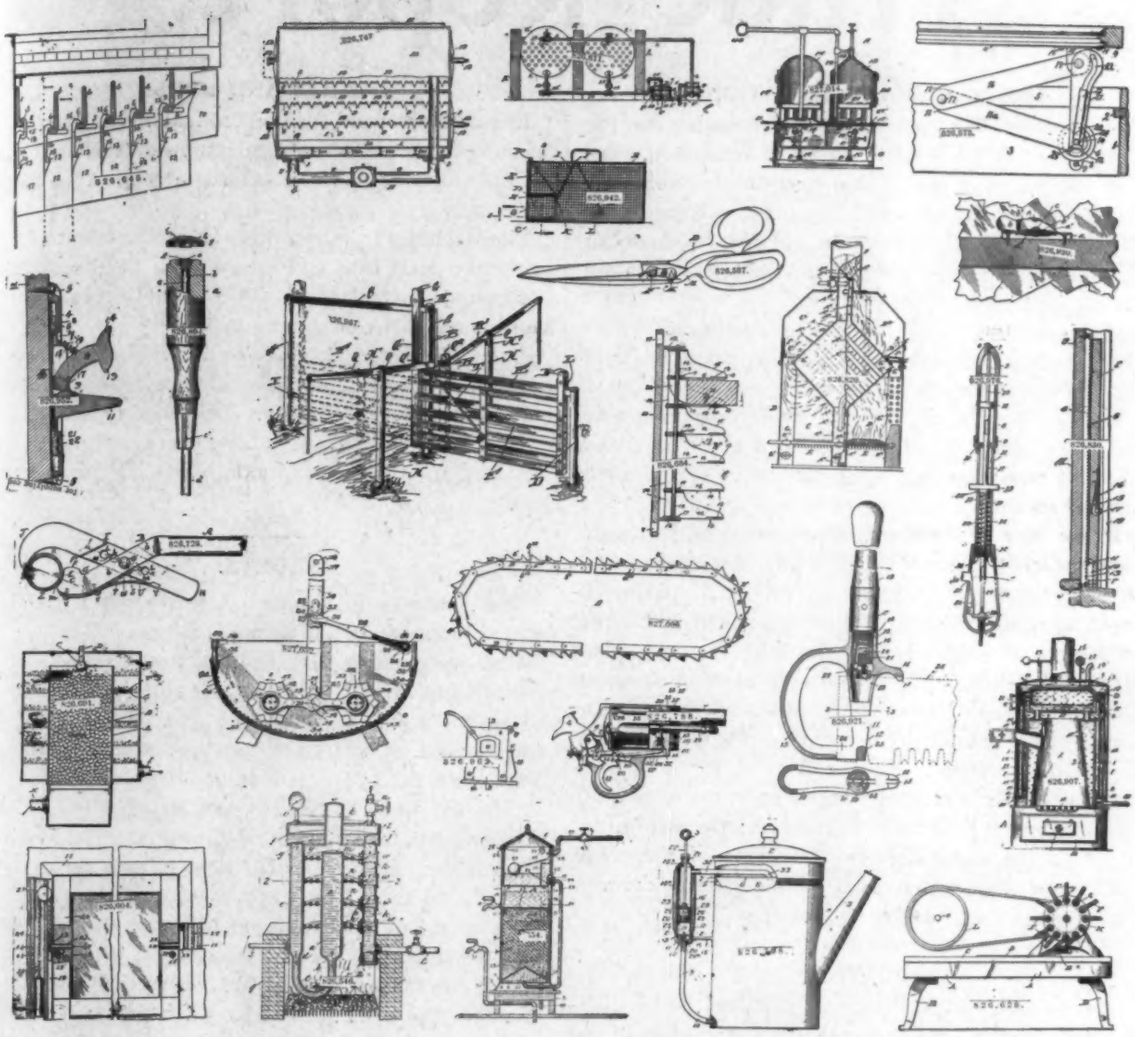
ITEMS.

As evidence of the general prosperity of the country we learn that the Lisk Manufacturing Company, Limited, of Canandaigua, New York, are shipping this week to the best retail hardware dealers of the country a solid train load consisting of fifteen cars loaded with their new Sanitary Enameled Roaster.

The Delphos Can Co., Delphos, Ohio, is adding to its plant two buildings, one of which will be 60x200 feet and the other 60x100. The company has already purchased a 75 h. p. gas engine and a 100 h. p. gas producer. Machinery is also being procured for the galvanizing plant as well as eaves trough and conductor pipe machinery. It is probable the company will also purchase an elevator, tank heater and several other items.

The National Sheet Metal Workers' convention will be held at Indianapolis, Indiana, on August 8, 9 and 10, and there will undoubtedly be a very large attendance. Tanner & Company of 216-218 South Meridian street, Indianapolis, Indiana, intend to be well prepared for the ocasion, and they will be in a position to show one of the largest and best stocks of tinners' supplies in the United States. They extend a cordial invitation to all dealers to use their office as headquarters during the convention. The company are special agents for Peck, Stow & Wilcox tools and machines, N. & G. Taylor's all steel roofing plate, Griffith's genuine charcoal iron roofing plates and Richard Jackson genuine Bangor slate. It will thus be seen that this company handles an exceedingly attractive line and hope to be favored with a call from those interested in their line.

NEW PATENTS.



826,546—Boiler. Alvin M. Cushing, Springfield, Mass. Filed May 8, 1905. Serial No. 259,475.

826,573—Storm sash fastener. Eugene Hubbell, St. Paul, Minn. Filed July 17, 1905. Serial No. 269,931.

826,587—Scissors. Thomas S. Linscott, Brantford, Canada. Filed Oct. 27, 1905. Serial No. 284,732.

826,604—Reversible window sash. Edward J. Peterbusch, St. Louis, Mo., assignor of one-half to Clinton L. Mehagan, St. Louis, Mo. Filed July 27, 1905. Serial No. 271,396.

826,628—Process of enameling metal and the resulting product. Samuel H. Thurston, Long Branch, N. J. Filed May 25, 1905. Serial No. 262,137.

826,645—Fire arch for furnaces. Joseph P. Barnes, Rockford, Ill., assignor to W. F. & John Barnes Company, Rockford, Ill., a corporation of Illinois. Filed May 17, 1905. Serial No. 260,885.

826,654—Self cooling filter system. Franklin E. Firth, Toledo, Ohio. Filed April 18, 1906. Serial No. 312,312.

826,684—Clothes drier. Charles Noble, Oregon, Ill., assignor of one-half to Charles F. Eshbaugh, Oregon, Ill. Filed June 22, 1905. Serial No. 266,373.

826,691—Gas purifying apparatus. Schuyler F. Seager, Lansing, Mich., assignor to American Suction Gas Producer Company, Lansing, Mich., a corporation of Michigan. Filed Dec. 20, 1905. Serial No. 292,570.

826,728—Pipe wrench. James G. Lind, Providence, R. I. Filed Nov. 29, 1905. Serial No. 289,645.

826,747—Apparatus for purifying gas. Thomas Redman, Bolton, Bradford, England. Filed Aug. 22, 1904. Serial No. 221,766.

826,788—Firearm. Henry M. Kolb and Charles Foehl, Philadelphia, Pa. Filed Nov. 11, 1905. Serial No. 286,816.

826,798—Coffee pot. Albert Peterman, Dallas, Tex. Filed Jan. 23, 1904. Serial No. 190,360.

826,811—Water purifying device for steam boilers. William P. Wiemann, Allegheny, Pa. Filed Oct. 21, 1905. Serial No. 283,780.

826,907—Heater. Fenton E. Stilwell, Geneva, N. Y. Filed March 29, 1905. Serial No. 252,707.

826,930—Window fastener. Wilbur F. Gilbert, New Britain, Conn., assignor to P. & F. Corbin, New Britain, Conn., a corporation of Connecticut. Filed May 12, 1904. Renewed Nov. 1, 1905. Serial No. 285,391.

826,952—Gate latch. William R. Morris, Kingsland, Ark. Filed July 6, 1905. Serial No. 268,332.

826,976—Soldering iron. John F. Wagner and James H. Weston, Tamaqua, Pa. Filed Feb. 7, 1906. Serial No. 299,924.

827,014—Cooker. Nels T. Hanson, Hawarden, Iowa. Filed May 9, 1905. Serial No. 259,517.

827,052—Washing machine. Fred J. Barrickman, Ottawa, Kan. Filed Nov. 30, 1904. Serial No. 234,914.

826,820—Steam boiler. Denis Ahern, New York, N. Y. Filed April 10, 1906. Serial No. 310,898.

826,830—Sash lock. Oliver B. Burroughs, Jacksonville, Fla. Filed June 10, 1905. Serial No. 264,681.

826,894—Handle for tools. Russell H. Shailer, Forestville, Conn. Filed Aug. 25, 1904. Serial No. 222092.

826,921—Saw handle. John W. Cox, Darling, Miss. Filed Jan. 11, 1906. Serial No. 295,635.

826,942—Animal trap. Albert A. Kellogg, Clinton, Mo. Filed Nov. 28, 1905. Serial No. 289,426.

826,962—Electric furnace. Benvenuto Platschick, Paris, France. Filed Nov. 27, 1905. Serial No. 289,254.

826,987—Sliding gate. Joseph E. Boyer, Stewartsville, Mo. Filed May 22, 1906. Serial No. 318,252.

827,009—Saw. Simon J. Gray and John Horning, Oakland, Cal. Original application filed April 29, 1905, Serial No. 258,102. Divided and this application filed July 20, 1905. Serial No. 270,529.

Trade Report.

THE HARDWARE SITUATION.

Midsummer has passed without bringing to the hardware trade its wonted period of relaxation. Indeed the vacation season has been an exceptionally trying one to many who with a volume of business remarkably sustained, have been obliged to carry an added load in the absence of those whose co-operation and assistance they usually enjoy.

Manufacturers have also found conditions somewhat trying; few have been able to catch up with their orders as they hoped to do.

Full yields in nearly all our staple crops are now practically assured and activity is observed in many forms of enterprise dependent upon a successful agricultural season.

In the face of these conditions prices of hardware have naturally remained firm. The market has also been characterized by great stability and steadiness, begetting confidence among distributors and with large consumers as well. It may be fairly assumed that early orders will be liberal not only in recognition of the present reasonable range of prices but in anticipation of probable difficulty in securing prompt execution of belated purchases.

Considerable interest is manifested in the wire cloth schedule which will be announced shortly and on account of the unsatisfactory conditions of the trade during the past season most of the jobbers favor a higher basis than has been prevailing.

PLATES.

Heavy specifications from shipbuilders, boiler makers and structural fitters have greatly strengthened the sheared plate situation and Eastern mills, owing to the large tonnage recently booked in their immediate territory, are not seeking Western business as eagerly as they did several months ago. Shipments of certain sizes are now deferred sixty days and on extra wide plates as much as ninety days are required. Universal plates are being offered in this market by one Eastern mill at a concession of $1.00 a ton, but as its available tonnage is small the market has not been unsettled.

Another boat was placed with lake shipbuilders last week. The steel for it will be let in a few days.

Quotations are as follows:

Tank plates, ¼-in. and heavier, wider than 6¼ and up to 100 in. wide, inclusive, car lots, Chicago, 1.76½c; 3-16 in., 1.86½c; Nos. 7 and 8 gauge, 1.91½c; No. 9, 2.01½c; flange quality, in widths up to 100 in., 1.86½c, base, for ¼-in. and heavier, with the same advance for lighter weights; sketch plates, tank quality, 1.86½c; flange quality, 1.96½c. Store prices on plates are as follows: Tank plate, ¼-in. and heavier, up to 72 in. wide, 2c to 2.10c; from 72 to 96 in. wide, 2.10c to 2.20c; 3-16 in. up to 60 in. wide, 2.10c to 2.20c; 72 in. wide, 2.35c to 2.45c; No. 8, up to 60 in. wide, 2.15c to 2.25c; flange and head quality, 0.25c extra.

BILLETS AND RODS.

Increasing demand for finished material is gradually resulting in the withdrawal of large steel makers from the open market and steel shortage is growing more acute daily.

The Republic Iron and Steel Company is out of the market on steel bars and the Morgan Steel and Iron Company is experiencing difficulty in securing sufficient tonnage of rods for its mills.

The Illinois Steel Company is offering only a limited tonnage of forging and axle billets and has no ruling billets for sale. We quote: Bessemer Open Hearth rods at $36.00 to $37.00, f. o. b. Chicago, forging billets, $35.00 to $36.00, and axle billets, $30.00 in large lots.

SHEETS.

The demand is good although prices, while firm, are quoted the same as last week, as follows:

Blue annealed, Nos. 9 and 10, 1.96½c to 2.01½c; Nos. 16 and 17, 2.16½c to 2.21½c; box annealed, Nos. 18 to 20, 2.36½ to 2.41½c; No. 27, 2.56½c to 2.61½c; No. 28, 2.66½c to 2.71½c; galvanized sheets, Nos. 10 to 14, 2.71½c; Nos. 17 to 21, 2.96½c; Nos. 22 and 24, 3.11½c; Nos. 25 and 26, 3.31½c; No. 27, 3.51½c; No. 28, 3.71½c; No. 30, 4.21½c. Sheets from store: Blue annealed, Nos. 10 and 11, 2.10c to 2.20c; Nos. 12 and 13, 2.15c to 2.25c; Nos. 14 and 15, 2.20c to 2.30c; No. 16, 2.30c to 2.40c; box annealed, Nos. 18 to 20, 2.50c to 2.55c; Nos. 22 to 24, 2.55c to 2.60c; No. 26, 2.60c to 2.65c; No. 27, 2.65c to 2.70c; No. 28, 2.75c to 2.80c; No. 30, 3.15c to 3.20c. Galvanized from store: Nos. 10 to 20, 3c to 3.05c; Nos. 22 to 24, 3.15c to 3.20c; No. 26, 3.35c to 3.40c; No. 27, 3.55c to 3.60c; No. 28, 3.75c to 3.80c; No. 30, 4.95c to 5c.

OLD MATERIAL.

The market is again higher and under light offerings it looks as though further advances might be scored in the near future. There is said to be a heavy interest in steel, and some dealers to cover their contracts are offering more than the mills are willing to pay, sales having been made at $16.75. To nearby mills the same holders ask $17.00 for additional lots.

Bids and offers for dealers in buyers' yards are about as follows:

Steel Crops	$16.75 to $17.00
No. 1 Steel Scrap	16.50 to 17.00
Low Phosphorus Scrap	20.00 to 21.00
Old Steel Axles	20.50 to 21.00
Old Iron Axles	27.00 to 27.50
Old Iron Rails	21.00 to 22.00
Old Car Wheels	16.50 to 17.00
Choice Scrap, R. R. No. 1 Wrought	19.00 to 19.50
Choice No. 1 Yard Scrap	17.00 to 17.50
Long and Short	15.00 to 16.00

Machinery Scrap	16.00 to	16.50
Wrought Iron Pipe	13.50 to	14.00
No. 1 Forge Fire Scrap	13.00 to	13.50
No. 2 Light Ordinary	10.00 to	11.00
Wrought Turnings	12.00 to	12.50
Axle Turnings, Choice Heavy	12.50 to	13.00
Stove Plate	11.50 to	12.00
Cast Borings	9.75 to	10.25

PIG IRON.

Heavy sales at advancing prices continue to characterize the iron market. Spot iron is scarce and stocks in both foundry and furnace irons are low.

Price advances of 50c a ton have been made on foundry and basic by Southern and Virginia furnaces and northern foundry and malleable have been marked up 25c.

We quote as follows, f. o. b. Chicago:

Lake Superior Charcoal	$19.25 to	$19.50
Northern Coke Foundry, No. 1	19.25 to	19.50
Northern Coke Foundry, No. 2	18.75 to	19.00
Northern Coke Foundry, No. 3	18.25 to	18.50
Northern Scotch, No. 1	19.25 to	19.50
Ohio Strong Softeners, No. 1	19.05 to	19.30
Ohio Strong Softeners, No. 2	18.55 to	18.90
Southern Coke, No. 1	17.90 to	18.40
Southern Coke, No. 2	17.40 to	17.90
Southern Coke, No. 3	16.90 to	17.40
Southern Coke, No. 4	16.40 to	16.90
Southern Coke, No. 1 Soft	17.90 to	18.40
Southern Coke, No. 2 Soft	17.40 to	17.90
Southern Gray Forge		16.15
Southern Mottled		16.65
Malleable Bessemer	18.75 to	19.00
Standard Bessemer	19.55 to	19.80
Jackson Co. and Kentucky Silvery, 6 per cent	20.30 to	20.80
Jackson Co. and Kentucky Silvery, 8 per cent	21.30 to	21.80
Jackson Co. and Kentucky Silvery, 10 per cent	22.30 to	22.80

METALS.

The market remains practically unchanged with the exception of spelter. Consumers are largely covered and no buying of consequence is expected until the middle of August or September. We quote as follows:

Casting copper, 18¾c to 18⅞c; lake, 18⅞c to 19¼c, in car lots; small lots, ¼c to ⅜c higher; pig tin, car lots, 39½c to 40c; small lots, 40½c to 41c; spelter, prompt delivery, 6.20c to 6.30c, for car lots; lead, desilverized, 5.90c to 6c, for 50-ton lots; corroding, 6.57½c to 6.67½c, for 50-ton lots, on car lots, 2¼c per 100 lbs. higher; Cookson's antimony, 28c, and other grades, 26c to 27c; sheet zinc is $7.75 list, f. o. b. Laselle, in car lots of 60-lb. cask. On old metals we quote: Copper wire, 16¾c; heavy copper, 16¼c; copper bottoms, 15½c; copper clips, 15¾c; red brass, 15½c; red brass borings, 13¾c; yellow brass, 12¼c; yellow brass borings, 10¼c; light brass, 8¾c; lead pipe, 5½c; tea lead, 5c; zinc, 5c; pewter, No. 1, 24c; tin foil, 32c; block tin pipe, 27½c.

Rogers, Brown & Company will say in their weekly report:

The week's transactions in all markets have more than maintained the records of the recent past. Sales of all grades have been made freely and buyers are manifesting a lively interest in conditions generally and a desire to cover for extended periods. Several sales of magnitude are reported for 1907 and this business is being entertained more freely by furnaces than has been the case recently. Prices are exceedingly stiff and an advance in many of the markets is momentarily expected. Prices on business for last quarter of 1906 and earlier part of 1907 are firm at current figures and buyers cannot help but realize the strength of the iron situation from the furnace standpoint at this time. Notwithstanding the good tonnage placed for future delivery, calls for prompt shipment business continue undiminished, showing conclusively that tremendous consumption is being maintained. Reports indicate but sorry results from the efforts being made to improve output tonnage. It is still below what it should be and much less than might be expected in the face of buyers' demands on merchant furnaces.

In the South there are practically no foundry and soft grades available and the whole tenor of Southern feeling and prices is upward. There is an immense ore movement on the Great Lakes and lack of this raw material is not affecting the furnaces interested. The number of plants out of commission is more largely due to their physical condition or lack of labor than to any dearth of raw supplies.

Coke is ruling higher in all districts. The demands of the Western crops in the way of car supply is cutting down equipment at the ovens to an unusual extent, and as the railroads have made exceptional efforts to move the greatest grain crop in history, it is not to be wondered at that coke shippers are suffering and that a totally inadequate movement will be the rule rather than the exception for several weeks to come.

Matthew Addy & Company will say in their weekly report:

As suggestive a feature of the iron market as could be imagined is the fact that inquiries are now being made for deliveries over the first half of 1907. That is, some pig iron consumers are now seeking to purchase iron, the last of which will not be shipped for nearly a year to come, and producers are not particularly anxious to sell for next year. It is easy to understand their reluctance to sell so far ahead, as no man can definitely tell now what labor conditions or the prices of ore and coke will be next year; but that 1907 business is already under discussion shows that consumers have orders either in sight or already on hand and that they have confidence in the permanence of the present high water level in trade. As for this year, nothing short of some colossal international calamity can interrupt or disturb it.

The week has been marked by a steady and continuous purchasing and by a demand for spot shipments that cannot be made. A decided shortage in high-grade foundry irons both North and South has developed. No. 2 foundry is wanted for quick delivery and, while it can still be found in limited quantities for the last quarter of the year, it is practically unobtainable for immediate shipment. It is evident that the July buying movement was of far greater proportions than was apparent at the time. The heaviest producers in the country have sold up solidly and are absolutely out of the market for nearby delivery on new orders.

It looks very much as if consumption were just now greater than production. For the past sixty days pig iron makers have been having unusual troubles. More than the ordinary numbers of furnaces are out of repairs; then labor conditions everywhere are exceedingly bad. The plain fact of the matter is that there is a much larger demand for labor than the supply. In the coke fields this is particularly the case. Then, too, this is the season when, because of the humidity in the atmosphere furnaces work poorly. Consumption, however, has ever since the end of the winter been steadily increasing and in the fall months will probably break all records.

Sales during the week have been heavy. All kinds of iron have been sold and inquiry keeps up unabated. Coke is in fine demand and there is much buying for forward shipment.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 25
IX	14x20	8 25
IXX	14x20	9 48
IXXX	14x20	10 68
IXXXX	14x20	11 88
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 75
Cokes 270 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$19 00@$19 25
North'n Fdy., No. 1	18 80@ 19 05
North'n Fdy., No. 2	18 80@ 18 55
North'n Fdy., No. 3	17 80@ 18 05
Northern Scotch Fdy.	18 80@ 19 05
Ohio Strong Softeners, No. 1	19 80@ 20 05
Ohio Strong Softeners, No. 2	19 30@ 19 55
Southern Fdy., No. 1	18 15@ 18 40
Southern Fdy., No. 2	17 65@ 17 90
Southern Fdy., No. 3	17 15@ 17 40
Southern Fdy., No. 4	16 65@ 16 90
Southern No. 1 Soft	18 15@ 18 40
Southern No. 2 Soft	17 65@ 17 90
Southern Gray Forge	16 15@ 16 40
Southern Mottled	15 90@ 16 15
Southern Silveries, 4 to 6 per cent Silicon	17 90@ 18 15
Jackson Co. Silveries, 8 to 10¢ Silicon	22 30@ 23 30
Ala. and Geo. Car Wheel	23 90@ 24 40
Malleable Bessemer	18 30@ 18 50
Basic Iron	18 85

BLACK STEEL SHEETS.

Nos. 11-12 per 100 lbs	$2 00
Nos. 13-14 per 100 lbs	2 05
Nos. 15-16 per 100 lbs.	2 10
Nos. 17-21 per 100 lbs.	2 15
Nos. 22-24 per 100 lbs.	2 20
Nos. 25-26 per 100 lbs.	2 25
No. 27 per 100 lbs.	2 30
No. 28 per 100 lbs.	2 40

GALVANIZED.

Nos. 10-11 per 100 lbs.	$2 35
Nos. 12-14 per 100 lbs.	2 45
Nos. 15-16 per 100 lbs.	2 55
Nos. 17-21 per 100 lbs.	2 70
Nos. 22-24 per 100 lbs.	2 85
Nos. 25-26 per 100 lbs.	3 05
No. 27 per 100 lbs.	3 25
No. 28 per 100 lbs.	3 45

POLISHED SHEET STEEL.

No. 24 per 100 lbs.	$4 60
No. 26 per 100 lbs.	4 70
No. 27 per 100 lbs.	4 80
No. 28 per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth, No. 20	$2 90
" " No. 22-24	2 95
" " No. 25-26	3 00
" " No. 27	3 05
" " No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B"	$9 20
Dickey Planished Sheet Steel	8⅝c

GALVANIZED IRON.

Regular Sizes.

No 16, per 100 lbs.	$3 20
Nos. 18 & 20, per 100 lbs.	3 35
Nos. 22 & 24, per 100 lbs.	3 70
No. 26, per 100 lbs.	3 00
No. 27, per 100 lbs.	3 50
No. 28, per 100 lbs.	4 70
No. 30, per 100 lbs.	5 90
Nos. 22 & 24 x 36 in., per 100 lbs.	3 10
No. 26 x 36 in., per 100 lbs.	3 90
No. 27 x 36 in., per 100 lbs.	4 10
No. 28 x 36 in., per 100 lbs.	4 30

SOLDER.

XXX Guaranteed ½ & ½ . per lb.	29 c
Commercial ½ & ½ per lb.	28½c
No. 1 Plumbers	27 c

SHEET ZINC.

600 lb. Casks case, per cwt,	0 90
300 lb. Casks per cwt.	7 90
Sheets per cwt.	7 70

COPPER.

Copper	base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits, pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c
Sheet.	
Full coils per 100 lbs.	$7 00
Cut coils per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.	
Triumph	40&10%
Plumbs	50&5%
Coopers'.	
Barton's	20%
White's	15%
Railroad.	
Triumph	40&5%
Plumbs	50%
Ship.	
Triumph	33⅓&5%
Plumbs	40%
White's	12½%

AMMUNITION.

Caps; Percussion—per 1,000.	
F. L. Waterproof, 1-10s	40c
G. D.	35c
Musket	60c
Cartridges.	
Winchester Rim Fire Ctgs	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent Fire, Military and Sporting Ctgs	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
rimers.	
Berdan Primers	$1 00
Winchester Primers	20%
Shells.	
New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.	Each
DuPont's Sporting, kegs	$4 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs.	11 35
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs.	2 97
" " 1-lb. cans	51

Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 70
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 95
Buck Shot, 25-lb. bags, per bag	1 95
Chilled Shot, 25-lb. bags, "	1 95

ANCHORS.

Expansion Screw Anchors	10%

ANVILS.

Trenton, 70 to 80 lbs.	9¾c per lb
Trenton, 81 to 150 lbs.	9¼c per lb

ASBESTOS.

Board and Paper	33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.	
No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	1 20
Patent asst'd, 1 to 4 "	85
Harness.	
Common "	95
Patent "	90
Peg.	
Shouldered per gro,	$1 20
Patent "	60
Scratch.	
No. 1, handled "	4 80
No. 15, socket handled. per doz.	1 25
No. 7 Stanley "	1 80
Sewing.	
Common per gro.	90
Patent "	90

AXES.

Boy's Handled.	
Lippincott, 3 lb per doz.	$5 00
Falls City "	5 00
Broad.	
Plumbs, West, Pat	40-10&5%
Plumbs, Can. Pat	50&10%
Firemen's (handled) per doz	$16 00
Miners' (handled) "	6 50
Single Bitted (handled).	
Gladiator 3 to 4 lbs., pr dz.	$10 00
Flint Edge " " "	8 25
Standard " " "	8 25
ElectricChop'er" " "	9 50
Perfect " " "	9 00
Crown " " "	6 25
Single Bitted (without handles).	
Gladiator per doz. 3 to 4 lbs.	$7 25
Flint Edge " "	5 75
Standard " "	5 75
Electric Chopper " "	7 00
Perfect " "	6 50
Crown " "	5 00
Double bitted (without handles).	
Gladiator 3 to 4 lbs. per doz.	$9 75
Flint Edge " "	8 50
Perfect " "	9 75

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$3.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point cwt.	$3 25

BASKETS.

Clothes.			
Small Willow per doz.	$5 75		
Medium " "	6 50		
Large " "	7 25		
Galvanized Iron.	½ bu.	1 bu.	1½ bu
Per doz.	$4 00	5 50	7 00

BEATERS.

Carpet.	Per doz
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	95
Egg.	Per doz
No. 50 Imp. Dover	$0 70
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8 inch per doz.	$7 50
10 inch "	9 50
Moulders'.	
12 inch "	11 00

BELLS.

Call.	
3 in. Nickeled Rotary Bell, bronzed base per doz	$5 00
Cow.	
High Grade	60&10%
Kentucky	70&10%
Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	50&10&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50&10%
Farm, lbs 40 50 75 100	
Each $1.25 1.60 2.35 2.85	

BEVELS, TEE.

Stanley's, rosewood handle, new list	40%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	80&10&5%
Brass	75&5%
Brass Plated	75&10%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50&5%
Russell Jenning's	25&10%
Clark's Expansive	60&5%
Steer's " Small list, $22.00	30%
" Large " $26.00	30%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	
No. 18 Wheeler's per doz.	$1 25
No. 20 " " "	1 75
American Snail head. "	75
" Rose "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25
Dowel.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	60%
German Pattern per doz.	$0 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00
Reamer.	
Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75
Screw Driver.	
No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 " "	1 50
No. 340 Shepardson's "	1 25
No. 1 Smith's "	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ⅞ & 1⅛ in.....40¢
Clock Spring.....40¢
Star.....15¢
Coil.....each $1 50
Hack.
Disston's.....25&5¢
Flexible.....33⅓&5¢
Star.....20&5¢
Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10¢
Steel.....50¢
Tackle.
Iron Strapped.....70&10¢
Coin Steel.....60&10¢

BOARDS.

Stove.....40¢
Wash.
Globe, single.....per doz. $2 25
" double..... " 2 75
Magnolia..... " 2 65
Crystal Glass..... " 3 40
Brass King..... " 3 40
Nickel Plate..... " 3 40
Enamel King..... " 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅝x6 and sizes smaller and shorter.....75¢
Carriage, sizes larger and longer than ⅝x6.....65¢
Machine, ⅝x4 and sizes smaller and shorter.....70&10¢
Machine, sizes larger than ⅝x⅜x4.....65¢
Elevator.....50-10&5¢
Plow.....60&10¢
Stove.....80&10&5¢
Tire.....75&10¢
Wagon Box Strap.....70&10¢
Mortise Door.
Gem, iron.....60¢
" bronze plated.....20¢
Barrel.
Cast.....60¢
Wrought.....75&10¢
" Bronzed.....50¢
Flush.
Wrought.....50&10¢
Spring.
Wrought.....70&10¢
" Heavy.....70¢
Square.
Cast.....50&10¢
Wrought.....75¢

BORERS.

Angular.
Miller's Falls.....per doz. $13 00
Bung.
Doz.
Enterprise Mfg. Co.'s No. 1....$14 00
" " " No. 2.....18 50

BOXES.

Mail, No....	1	2	10
Per doz.....	$3.25	4.50	17.50

Miter.
New Langdon.....15&5¢
Stanley's.....30¢
Seavey's.....each $1 50

BRACES.

Barber's.....50&10&10@50&10&10&15¢
Fray's Genuine Spofford's.....60¢
" Nos. 66 to 146.....50¢
" No. 0108.....$3 50
" No. 0110..... 3 75
" No. 08..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 00
" No. 2 " 9 60
Shelf.
Cast Iron, Bronzed.....50, 10, 5¢
Griffin Wrought Steel.....75&10¢
" Folding.....70&10¢

BROILERS.

Wire.....70&10¢
Crown, Self-Basting, No. 80. doz. $2 50

BUCKETS.

Pump Rubber.
Wychoff.....per gr. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75
Well.

Galv'd Qts.....	10	12	14
Per doz.....	$2.90	$3.25	$3.40

Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....35-10&5¢
Tinners' Iron Burrs only.....70¢

BUTTS.

Cast Iron.....70&5¢
Wrought Brass.....15¢
Wrought Steel Bright.
Stanley.....75&5¢
" Ball Tip.....75&10¢
" " Bronzed.....70¢
Wrought Steel, Japanned.
Nos. 731 and 733.....70-10-10&10¢

CALIPERS.

Double.....70¢
Inside and Outside.....70&10¢
Wing.....70¢

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M.....$3 75
Toe.
Shoenberger.....per ℔ 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.

Gallons.....	20	30	40
Each.....	$3.85	$4.50	$5.65

Milk.
Holstein.

Nos.....	300	301	302
Gals.....	5	8	10
Per doz.....	$20.00	$21.00	$23.00

Chicago Pattern.

Nos.....	105	108	110
Per doz....	$16.50	$18.50	$20.50

Iowa Pattern.

Nos.....	408	410
Per doz.....	$20.50	$21.50

New Elgin Pattern.

Nos.....	705	708	710
Per doz. ...	20.50	$22.50	$23.50

Burn Pattern.

Nos.....	700	701
Gals.....	8	10
Price.....	$1.85	$2.10

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each $3 50
Diamond, Sling..... " 6 50
Myers' Imperial..... " 3 50
" Clover Leaf..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10¢
Bed.....60&5¢
Common Plate.
Brass Wheel.....60&10¢
Iron and porcelain wheels, new list.....60&5¢
Philadelphia Plate, new list.. 70¢
Martin's.....60¢
Payson's.....75&10¢

CATCHERS, GRASS.

Carroll s No. C..... ..per doz. $4.25
Wildermuth's

Nos....	1	2	3
Per doz.....	$5.60	$5.75	$6.25
Nos....	4	5	6
Per doz.....	$6.75	$9.50	$10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs $5 75
With Covert snaps. " 5 00
With slide..... " 3 25
Without slide..... " 2 85
Bright Ox Chains.
$\frac{5}{16}$ in. $7.25; ⅜ in. $5.45 per 100 lbs.
Cable Coil Chain.

Inch.....	$\frac{5}{16}$	¼	$\frac{3}{16}$	⅛
Per 100 lbs..	$9.80	$7.00	$6.00	$5.20
Inch.....	$\frac{7}{16}$	⅜	⅜	⅜
Per 100 lbs..	$5.00	$4.90	$4.75	$4.65
Inch.....	½	1	1¼	
Per 100 lbs..	$4.55	$4.55	$4.65	

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil
Cow Tie Chains.
American 3 toggle.....50&5¢
" toggle and snap...50&5¢
" open & closed ring, 50&5¢
Halter Chains.
American, new list.....33⅓&5¢
German.....60&10¢
Niagara, new list.....40&5
Brown's, " .....40&5¢
Picture Chains.
Light Brass, 3 ft.....per doz. 50c
Heavy Brass, 3 ft..... " 75c
Pump Chain.
Galvanized, per 100 lbs.....$5.00
Safety Chain.
Brass.....60&10¢
Special Steel Loading Chain.

Inch.....	½	$\frac{9}{16}$	$\frac{5}{16}$
Per 100 lbs...	$16.00	$13.50	$12.50

Stretcher Chains.
$\frac{5}{16}$ in. $8.50; ⅜ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's.....70&10¢
Trace Chains.
Western Standard.
6½—6-2.....per pair.30c
6½—8-2..... " 31c
6½—8-3..... " 33c
6½—10-2..... " 38c
7 —8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.

Inch.....	½	$\frac{9}{16}$	⅝
Per 100 lbs...	$6.50	$6.00	$5.50

CHALK, CARPENTERS'.

Blue.....per gross 75c
Red..... " 65c
White..... " 55c
Common White Sch'l Crayon..... 8c

CHARCOAL

In bags.....per bag 85c

CHECKS, DOOR.

Blount.....33⅓¢
Sargent's.....33⅓¢

CHIMNEY TOPS.

Iwan's Volcano.....50¢

CHISELS.

Box.

Inches.....	10	12	14
Round, per doz.	$2.10	$2.25	$2.75
Flat "	2.85	3.60	4.20

Cold.
Good quality.....per ℔ 10@19c
Socket, Framing and Firmer.
Barton's.....20¢
Peck, Stow & Wilcox Co.....75¢
For beveled back, add per doz. .60c
Tanged, Firmer.
With handles.....30&5¢
Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood, Gal..	5	7	10
Each.....	$3.90	$4.60	$4.85

Belle, Barrel.....70¢

Common Dash, Gal..	4	5	6
Per doz.....	$7.75	$8.50	$10.50

Hero.....70¢

Union, Gal.....	5	7	10
Each.....	$3.65	$3.90	$4.75

CLAMPS.

Adjustable.
Martin's.....30¢
Carpenters'
Steel Bar.....25¢
Hose.
Sherman's, brass, ¾ in., per doz..33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00.....30¢
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's. No. 1 $6.00; No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle.....per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel..... " 1.60
Giant..... " .90

CLEANERS.

Drain.
Iwan's Adjustable.....55¢
Iwan's Stationary.....40&5¢
Pot.
Wire.....per doz. $0.55
Side-walk.
Steel.....per doz. $3.25
XLCR.....65&5¢

CLEAVERS.

Family.

Griffin, In.....	6	7	8
Per doz.....	$5.50	$5.75	$6.25

Royal.....per doz. 2 25
Butchers.
Beattys, Kitchen.....40¢

CLEVISES.

Malleable.....4½c ℔

CLIPPERS.

Bolt.....$1.90@$4.75

CLIPS.

Axle.....65&5¢
Damper.
Standard.....per doz. 65c
Troy..... " 38c
Hame..... " 17c

CLOTH.

Emery.
Triumph.....50&10¢
B. & A..... 50¢
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft..$1 95
9 to 12 " " " " 2 25
2 to 3 inclusive—in full roll.....3 00
4 and 5..... " 3 25
6..... " 3 50
7 and 8..... " 4 00
Screen Wire.
12 mesh, painted, per 100 sq. ft..$1 10
14 " " " " 1 50

COCKS AND FAUCETS.

Compression Plain Bibbs...60-10-2½¢
Lever Bibb Cocks.....60&10¢
Compression Hose Bibbs.....60&5¢
Telegraph Faucets (new list)...50-5¢
Racking Cocks (new list).....60&10¢
Compression Lock C'ks(n'w list)..70¢
Andrew's Brass Faucets.....70¢
Angle Plug Faucets, per doz....$0.85
Milk Can Faucets, per doz...$2.60-4.20
Petroleum Faucets.....75&10¢

COLLARS, STOVE PIPE.

Inches.....	5	6	7
Plain Tin....per gro.	$1.60	$2.00	$3.00
Japanned Tin "	3.00	3.00	4.25
Lacquered Brass "	2.75	3.25	4.00

COMBS, CURRY.

Nos...	000	11	15	39	89	108
Per doz.	$0.32	.55	1.85	.85	1.10	.75
Nos....	299	320	390	532	620	1400
Per doz.	$1.00	.80	1.30	1.15	.70	1.35

COMPASSES.

Carpenters'.....70¢
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔.....per ℔ 32c
1½ ℔.....29c 2 ℔.... " 28c
3 ℔ and larger..... " 26c

CORD.

Picture.
White Wire (new list).....85¢
Sash.
Baltic Braided Flax.....per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c
Keystone.....8-32 in. " 26c

CORKSCREWS.

Humason & Beckley.....33⅓¢
Walker's.....33⅓¢
Williamson's Regular..... 50¢
Williamson's Forged Worm.....50¢

COTTERS, SPRING.

All sizes—new list.....90&30¢

COUPLINGS, HOSE.

Brass.....per doz. $ .90
Brass Plated..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine...per doz. $2.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil 45%
Smith & Hemenway Co. 50%
Woodward 40%
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25%
No. 202, list, $1.50 ea. ..... 40&7½%
Universal... Nos. 1 2 3
Per doz $10.50 $12.50 $17.00
Pipe.
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4 00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10%
American ..... 45&10%

DIES, STOCKS AND

Discount ..... 40&5%
King's, Little Giant 33⅓%

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 50
Eagle ..... " 5 75
Eureka ..... " 7 00
Hercules ..... " 9 75
Iwan's Split Handle ..... " 7 00
Iwan's Perfection ..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 93
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60% &65&5%
Blacksmith's Twist 60%
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz.. $7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell ..... per doz. $16 50
Bit Stock.
Standard List... 60&5%@60%@10%

DRIVERS, SCREW.

Hurwood ..... 40-10&10%
Standard ..... 65&10%
Triumph ..... 70&5%
Champion 45%
" Pattern ..... 60, 10&5%
Clark's Interchangeable 30%
Edison 60%
Reed's Lightning ..... 45&5%
Goodell's Spiral ..... 50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral ..... 50&10%
Smith & Hemenway Co. ..... 40&5%

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80&2½%
Central ..... 75&10&7½%
Southern ..... 75&10
Western ..... 75&10
S. Western ..... 75&2½
Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth per doz. $0.70 $0.75 $1.10
Plain'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount ..... 60&10%
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plain'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth. per doz. 0.40 0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .90 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ½ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 80
Peerless 1 50
Keystone 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5%
Hooks and—
Brass 55%
Iron ..... 65&5%

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10%
Disston's ..... 75&10%
Challenge ..... 70&10%
Royal ..... 80&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed 60%
Hay,
Batcheller, 2 tine ..... 60&10%
" 3 " 70%
" 4 " ..... 70&7½%
Digging ..... 70&10%
Scoop 40%
Header.
Batcheller, 3 tine ..... 66⅔&5%
" 4 " ..... 65&10%
Manure.
Batcheller, 4 tine ..... 70&5%
Ore 40%
Spading.
Batcheller ..... 80&10%

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform ... each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power. " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 20&10%
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. ..... 50&10%
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's 25%

GIMLETS.

Discount ..... 35@40%

GLASS, WINDOW.

First two brackets ..... 90&20%
Above " " ..... 90&10%

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5%

GLUE.

Bulk.
B Amber ..... per lb. 11 c
A White ..... " 13½c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy 40%
Le Page's—
List "A" 37½%
List "B" 33⅓%
List "C" 25%

GOODS.

Bright Wire ..... 90&10%

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone ..... 40&10%

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing.. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top ..... " 47
" leather top ..... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie ..... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's ..... 40&10%
Engineers'.
Maydole's ..... 40&10%
Farriers'.
Maydole's ..... 35&5%
Machinists'.
Maydole's ..... 40&10%
Nail.
Triumph 40%
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5%
Riveting.
Maydole's ..... 35&5%
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs 80%
5 lbs. and over ..... 80&10%
Masons'.
Single & Double Face ..... 75&10&5%

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " ..... per set 1 35
Axe 60%
Chisel.
Hickory, Tanged Firmer, Assorted. 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted 27c; Large, 30c per doz.
Applewood, Tanged Firmer, Assorted, 29c; large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz. 24c
Coal Pick ..... 50&10%
Drifting Pick ..... 50&10%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 40&10%
Hoe and Rake ..... 40&10%
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade 40%

HANGERS.

Barn Door.
Challenge ..... 60&10%
Peerless ..... 70&10%
Silver Star ..... 60&5%
Storm King ..... 60@5%
World's Best 50%
Wagner's Adjustable ..... 70&10%
Warehouse 60%
Griffin ..... 70&10%
Conductor Pipe.
Griffin ..... 70&10%
Iwan's Perfection 50%
Eave Trough.
Baker's ..... per gro. $2 35
Imperial 20%
Wire 35%
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5%

HASPS.

Hinge, Wrought ..... 50&5%
With Staples—See Staples.

HATCHETS.

Challenge 40%
Blood's ..... 40&10%
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling ..... " $0 95@1 20
Germantown 40%
Plumb's ..... 40&5%
Underhill's Star Lath ..... 40&10%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1 .... per doz. $ 9 60
No. 2 ..... " 10 20

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's 65%
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Latch .... doz. $2.35 2.60 3.65
Hinges only ..... " 1.70 1.90
Latches only ..... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American 20%
Bommer Bros. Ball B'g Floor .. 35%
Bommer Bros. Spring Hinges .. 40%
Chicago ..... 25&5%
Columbia Dbl. Acting .... 40&10&5%
Gem 25%
Ideal Detachable .... per gro. $11.10
Matchless 30%
New Idea ..... per gro. $8.40
Oxford 20%
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5%
Heavy Strap Hinges ..... 75&10%
Light T Hinges ..... 60&10&7½%
Heavy T Hinges ..... 55&10%
Extra Heavy T Hinges .... 70-10&5%
Cor. Heavy Strap ..... 75&10%
Cor. Ex. Heavy T ..... 70&10&5%
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
⅞ in ..... per 100 lbs. $6 55
⅝ in ..... " " 7 60
½ in ..... " 9 45

HOES.

Garden ..... 75&5%
Grub.
Extra 70%
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10%
Mortar 80%
Planter's Eye 62½%
Weed ..... 75&15%

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5%
Iron ..... 65&10%
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5%
Jones' ..... 65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)

Bush.
Common Axe Handle. per doz. $7 00

Chain.
Inch... ¼&5/16 ⅜ 7/16 ½
Per 100 $7.60-8.10 9.75 11.50 13 60

Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c

Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70¢

Conductor.
Malleable.....50&10¢@50&10&5¢
Wrought .....40&10¢@50¢

Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75

Gate.
See Goods, Bright Wire.

Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00

Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c

Lambrequin, or Drapery, per gro. 21c

Picture .....50¢@50&10¢

Potato and Manure.....70&12½¢

Screw.
Brass.....80&5¢
(See Goods, Bright Wire.)

Seat Spring.....per lb. 5½c

HOOPS, TUB.

Ever Ready .....per case $1 70

HOSE, GARDEN.

3 ply ¾ in. 35 lb. pressure per ft....4½c
3 " ¾ " 50 " " " 6½c
3 " ¾ " 70 " " " 6½c
3 " ¾ " 70 " " " ....8 c
4 " ¾ " 80 " " " ....8 c
4 " ¾ " 80 " " " 9½c
6 " ¾ " 125 " " " 10½c
8 " ¾ " 150 " " " 12c
Cotton ¾ in. 75 lb. pressure per ft. 6c
" ¾ " 150 " " " 8c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45

Brinkerhoff's.
Per gro.....$14 40

Clark's
Nos..... 1 63 200 400
Per doz.... $0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $3.50

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90

Pinking ..... " 70

Plane.
Wood Bench.....20&5¢
Stanley R. & L. Co. (new list)...25¢

Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 lb. 3 50
" Nickel plated, " 4 50
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 67c
No. 55, " ..... " 71c
Tailors' Sad.....per lb. 4½c
" Geese ..... " 4½c

Tuyere.
Single Duck Nest.....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 60

JACKS.

Locomotive.....75&5¢

Wagon.
Oliver.
Nos 0 00
Each..... $0.60 $0.85
Standard.
Nos..... 1
Each..... $0.60 1.00
Wilcox.
Nos..... .... 1 2 3
Each..... ...$0.85 1.20 2.90

KETTLES.

Brass.....15¢
Cauldron .....45¢
Copper.....per lb. 27c
Maslin .....70¢
Sugar .....50&5¢

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40

Cooper's Hoop.....15¢

Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's ..... " 3 00
Woodford..... " 2 25

Drawing.
Standard .....70¢
Adjustable.....15¢
Barton's Carpenters'.....10¢
Folding Handle.....25&5¢

Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50

Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75

Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 2 00

Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75

Scraping.
Hetch Handle .....75@1 00
Lander's .....5 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 73
Porcelain ..... " 83
Jet..... " 83

LADDERS.

Common Long.
Per ft .....9c@14c

Extension.
Per ft 12c

Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone..... .....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00

Tubular.
Buhl..... .....40&10&5¢

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....40&10¢

Slaes.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.

Valve and Plunger .....45¢

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled. " 5 00

Transom.
Payson's.....80¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c

Clothes.
60-ft. Jute.....per doz. $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright.... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20

Washing.
Boss 1 2 5
Per doz.....$55.20 61.80 68.40
Winner.....per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40

Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid.....50, 10&5¢
Queen Flexible.....50¢

Stove.
No. 2. .....per gross. $2.50
No. 1. ..... " 2.75
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1.00
No. 2 Asbestos Toasters, with ring.....per doz. 1.55

MATTOCKS.

Warwood .....70&10¢
Extra .....60¢

MAULS.

Iron. lbs. 10 13 16 18
Per doz. ...$3.40 4.00 4.75 5.00
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00

Wood Choppers'.
Lake Super'r & Oregon Pat.. 80&5¢

MEASURES.

	½ pk.	1 pk.	bu
Galvanized. per dz.	$2.00	$2.75	$3.60
Japanned... "	1.50	2.20	2.90

METAL.

Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.

First Quality.....20¢
Second Quality.....20&10¢

MILLS, COFFEE.

Enterprise .....25¢
Parker.....50¢
Arcade .....50¢

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15

Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00

Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.35 2.50

Clipper .....50, 10&10¢

Yale.
Inches..... 4 16 18 20
Each.....$3.50 3.75 4.00 4.35

Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A.....50&10¢
Style E, High Wheel..60,10,10&10¢
Drevels.....50¢
All Day.....Net Price

NAILS.

Cut Steel.....rates, $2 10

Horse Shoe.
Ausable .....55&5¢
Capewell .....15¢
Perfect .....55&5¢
Putnam .....20-5¢
Star.....35&5¢

Clover Leaf..... ....per lb. net, 10½c

Picture.
Brass Heads .....40&10¢
Judd's..... ....60&10¢

Brads.....85&10¢

Furniture .....50¢

Wire.
Small Lots.....$2 10
Carload " 2 05
Cement Coated..... 1 85

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g.80&10&5¢
" After Weaving...80&10¢
Cut Pieces.....65&5¢

NIPPERS

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25

End and Diagonal Cutting.
Swedish Side.....75¢
Utica Drop Forge & Tool Co...60¢

Hoof.
Heller's .....40&10¢
V. & B.....55-5¢

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 15
Mystic..... " 2 65

NUTS, HOT PRESSED.

Square Blank.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝
lb. 9c 7½c 6c 5½c 4½c 4½c 4½c

Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
lb. 12c 10c 7½c 6½c 6½c 5½c 5½c
For 5 lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....50¢
Zinc .....60&5¢

Engineers'
Cannon.....55¢
Tin.....per doz. $2.00@$2.25

Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5¢
Japanned..... .....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat .per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75

Can.
Delmonico.....per doz. $1 20
Never Slip..... " 0 65

rate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Home.....per doz. $11 50
Economy..... " 4 90
Fireside..... " 10 50

PADLOCKS.

Standard Wrought .....75&10¢
Champion .....50¢
Eureka.....40, 10&5¢
Yale .....60&5¢

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50

Sap.
10-qt., Galvanized.....per doz. 1 60
12-qt., " ..... " 1 85

Stock
Galvd. qts. 14 16 18 20
Per doz.....$3.50 3.75 4.50 5.00

Water.
Galvanized, qts 10 12 14
Per doz $1 50 1.70 1.95

Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5¢

Fry.
Common.....75&10¢
Acme.....70&10¢

Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz.. $4 75 $5.75 $6 50 $7.50
Neverburn.. 4.00 4.50 5.50 6.50
Savory No. 200 .....per doz 8.50

PAPER.

Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin .....pr roll 40
No. 30, Red Rosin ..... " 55

Sand and Emery.
Challenge.....50&10¢
B. & A.....50¢

Wrapping
Drab Floer.....per lb. 3½c
Rag..... " 2½c

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....70¢
Drifting and Poll Picks.....70¢
Extra Railroad .....70&5¢
Surface.....65&5¢

PINCERS.

Carpenters', cast steel.

In.	6	8	10	12
Per doz.	$1 80	$2 40	$2 80	$3 50

Blacksmith's .....45¢
Heller's .....40¢

PINS.

Clothes.
Common.....per box of 5 gro. $0 50
Hoyt's..... " " 31
U. S..... " " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....70&10¢
Central.....70&2½¢
Southern.....65&10¢
Western.....65&10¢
Southwestern.....60&12½¢

Lead.
Full coils.....per ℔. 7½c
Cut " ..... " 7½c

Stove.

Acme—In.	5	6	7
Smooth, per jt..	8½c	9½c	10½c
Planished " ..	32 c	33 c	43c
Peerless—Smooth.	7½c	8 c	9½c
Polished	14½c	15½c	18c
Plan'hed	28 c	31 c	35½c

Made-up—In.	5	6	7
Smooth	7½c	8c	9½c

7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... ... " ..27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
Battle Ax Blue	—Cents—			
Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6¾	7½	8¼	8¾
Can't Slip Blue Smooth Steel.	6¾	7½	8¼	8¾
Duplex Polish'd Blue Smooth Steel.....	8¾	9½	10½	10¾
Yale Russia Pl'n	15¾	16½	17½	17½
Plan'h'd Duplex	29½	30½	37	38
Galvano, Galvanized Iron..	15	16	17	17½

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@⅜-in., black.....discount, 60¢
⅜@½-in. ..... " 60,10&5¢
¾-in. to 6-in.. black... " 70¢
7 " 12 " .. " 62½¢
⅛@⅜ galvanized " 42¢
⅜@½ " " 50¢
¾ " 6 " " 57½¢
7 " 12 " " 45¢

PLANES.

Sargent Iron Bench.....60&10¢
Stanley Iron Bench.....25&10&10¢

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz.....$2.75 $3.35 $4.15 $5.15

Button's Pattern.

In.	4½	6	8	10
Per doz.....	$2.75	$3.35	$4.15	$5.15

Cutting.
Bernard's.....30¢
Lodi.....50¢

End and Diagonal Cutting.
Swedish Side .....70¢
Utica Drop Forge & Tool Co....50¢

Fencing.
Farmers' Choice....per doz ..$8 00
Russell's..... " .. 8 25

Flat and Round Nose.
Bernard's.....30¢
German .....65¢
Lodi.....50¢
Paragon.....50¢

Gas—In. 6 8 10 12
Per doz...$2.35 $3.00 $4.00 $5.00

Tinner's.
Hollow.....40¢
Solid.....each..5½c

PLUMBS AND LEVELS.

Common.....75¢@75&10¢
Cook's.....40¢
Davis' Iron.....25¢
Davis' Inclinometer.....15¢

Stanley's.

Nos.	00	0	2	3
Per doz..	$4.50	$5.00	$7.35	$8.40
Nos.	30	25	50	35
Per doz.	$12.00	$17.00	$17.00	$12.00

POINTS.

Drive Well Points.....75&10¢

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'ls " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz.$5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.

Pts.	1-6	½	1
Per doz.....	$0.80	$1.10	$1.65

Pts.	1	2	4	8
Per doz	$2 75	$4.50	$7.50	$12.50

White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.....	$0.70	$1.35	$2.25	$3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz..... 2.25
U. S. Liquid, 8 oz. cans, per doz., $1.25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 35c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 ℔ cans....pr gro. 13 00
Black Jack, ¾ ℔ cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25¢
Henis .....per doz. $2 00

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10¢
Water's Improved..... " 80&5¢

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Blackhawk..... " .. 6 50
Morrill's..... " .. 10 50

Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60¢
Clothes Line.....50&10¢
Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... " 2 15
Hot House—Jap'd .....50&10¢
Screw..... " .....60¢
Side ..... " .....50&10¢
Sash.
Clark's .....per doz $0 36
Common Sense, 2 in .. " 22
" Pattern. 2 in.. " 20
Empire..... " 20
Ideal..... " 20
Steel..... " 25

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each	$.93	1.05	1.17½	1.45

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25
Machine.....per ℔. 19
Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 ℔s. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Match ess, 1½ in 3½c
Storm King..... 4c
World's Best 7c

Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood.....per doz. $5.20
Garden.
Steel.....75&10¢
Steel, bow.....75&7½¢
Malleable Iron, heavy.....70&10¢
Hay.
Wood.....$1.50@$3 00
Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ic .....50¢
Red Devil.....50¢
Tree Brand .....50¢

REGISTERS.

List December 5, 1904.
Black and White Japanned. .....70¢
Nickel Plated.....70¢
Electroplated, Brass, Bronze or Copper.....70¢

RINGS

Bull.

	2½ in	3 in.
Copper.....		
Per doz.....	$1.10	$1.35
Rea's Impro'd Self Piercing copper, pr d'z.	1.85	
Steel per doz..	.85	.95
Nickel Plated	1.35	...

and Ringers—Hog.
Blair's Rings.....per doz. $0 45
Blair's Ringers..... " 60
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 45
Hill's Ring, boxes..... " 40
Major Rings ..... " 60
Perfect Ringers..... " 80
Wolverine Rings..... " 1 30
Wolverine Ringers... " 60
Fruit Jar.
White.....per ℔ 30c
Key.
Split, round.....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt.....40¢
Coppered Iron .....75¢
Tinners' .....70¢
Hame .....per ℔. $0 10
Slotted Clinch.....per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per ℔. 11½c
¼, 5-16-in. Com. in coils .. " 12c
¼, 5 16 Imperial in coils . " 21c
Sisal
Rates.....10½c
Premier, rates .....per ℔. 8½c
Pure Manila.
Rates..... " 13½c
Premier, rates ..... " 12½c

RULES.

Boxwood.....60&5¢
Ivory .....45&5¢

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40¢
Disston's .....30&5¢
Jackson's.....30&5¢
Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40¢
Atkins' Nos. 77, 78.....60¢
Atkins' No. 79.....50&5¢
Disston's..... .40&5¢
Circular.
Atkins'.....50¢
Disston's.....50¢
Hiles'.....50&10¢
Compass.
Atkins' Nos. 2 & 3 .....40¢
Atkins' Nos. 4 & 5.....40&10¢
Common.....per doz. $1.35@$1.60
Disston's.....25&7½¢
Cross-Cut.
Atkins'.....35&40¢
Disston's.....40&10¢ &50¢
Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75
Hack.
Atkins'.....40¢
Disston's.....25¢
Keystone.....30¢
Hand and Rip.
Atkins'.....40¢
Brown's .....30&7½¢
Disston's No. 7.....30&10¢
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list) 25&10¢
Keystone.....35&5¢
Enterprise, hand.....per doz.$5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....30&5¢
Atkins' No. 5.....40&10¢
Atkins' No. 6.....40¢
Kitchen.
Atkins'.....50&10¢
Sterling.....25¢
One Man .....50¢
Panel.
Atkins'.....40&10¢
Brown's.....30&7½¢
Disston's No. 7.....35&5¢
Disston's No. D100.....30&5¢
Pruning.
Atkins' Nos. 1, 2 & 3.....35¢
Atkins' Nos. 5, 6 & 7.....40¢
Brown's.....25&7½¢
Disston's.....30&5¢
Wood.
Atkins'.....40&10¢
Common.....per doz. $4 50
Forest Clipper..... " 5 00
Happy Medium..... " 7 00
Perfection ..... " 8 00
Crescent..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10¢
Platform.
Osgood.....50¢

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Box.
Stanley's Adjustable, per doz.$3 00
Triangular..... " 4 00
Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80
Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.00	3.75	3.50
With runners.... "	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in,.....	1	1½	1¾
	$3.25	$3.75	$4.50

Wood, white maple..per doz. $3 50
Hand—Wood.....30¢
Hand Rail.....80&10¢
Jack .....70&10&10¢
Lag or Coach—all sizes, gimlet pointed.....75&5¢
Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&10&5¢
R. H. Blued.....85&10¢
F. H. Jap'd.....82½&10¢
F. H. Brass.....85&10¢
R. H. Brass.....80&10¢
R. H. Nickel Plated.....80¢

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass ..... " 6 75
Vulcan ..... " 6 50
Honest Dutchman..... " 6 50
Challenge ..... " 8 00

SHAVING SETS.
Smith & Hemenway..............60%

SETS.
Nail.
Round, common......per doz. $0 33
Square, " ...... " 42
Octagon " ...... " 33
Square, Triumph.... " 90
Cup Point, knurled, pr. doz. 90c@$1.00
Rivet.
Farmers'............per doz. $1 20
Tinners'....................50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever....... " 1 20
Disston's Monarch... " 6 50
" X Cut...... " 12 00
German.............. " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 75
Leach's.............. " 4 80
Nash's Hand......... " 3 15
" X Cut......... " 4 20
Stillman's Lever..... " 1 30
" X Cut...... " 2 50

SHARPENERS, SKATE.
Diamond................per doz. $1 60
Smith & Hemenway..............20%

SHAVES, SPOKE.
Iron..............per doz. $1.10@$1.85
Wood............. " 2.75@ 4.75
Bailey's.........................50&5%
Goodell's..........................15%
Stanley's Universal............30&5%

SHEARS.
Pruning.
Buckeye, No. 1.......per doz. $5 75
" No. 2....... " 7 40
California Pat.. 9 in.. " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3...... " 13 75
" " No. 4...... " 16 50
Henry's Pat. 0 01 14 012
Per doz......$1.40 $2.10 $2.90 $2.80
Star.................per doz. $4.00
Sheep—No. BBA.
Inches.......... 6 6½ 7
Reg. Grip...... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.
Common.
Inches............ 3 4 5
Per set........... $0.34 $0.42 $0.70
Hatfield's.
Per set........... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.
Union.................. per doz. $6.75

SHIELDS.
Expansion Bolt Shields.......50&10%

SHOES.
Conductor....................60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.
Coal.
No. 2 Woodford ......per doz. $5 50
No 182. .... " 6 00
Ames' new list......Discount 12½%
Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection...............50%
Railroad, Etc.
Black Diamond......per doz $10 50
Crescent............... " 5 75
Keystone............... " 8 75
Star.................... " 4 75
Vaterland .... " 9 50
Hollow Back........... " 4 75
Ames' new list......Discount 12½%
Snow.
Per doz...................$1.65@$9.00
Alaska Steel.
D Handle............per doz. $3 50
Long Handle....... " 3 00

SINKS.
Cast Iron.
Painted.......................... 60%
Enameled, White...............65%
Wrought Steel.
Painted, new list..........40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.
Champion........................33⅓%
German Pattern...............30&5%
Judd's Pattern...................50%

SNATHS.
Double Ring, Bush.....per doz. $5 50
Patent Loop " .... " 5 75
" " Grass..... " 5 25

SNIPS, TINNERS'.
Heinisch's......................40&5%
National........................40&10%

SOLDER—See Metals.

SPRINGS, DOOR.
Perfect.
Nos........ 1 2 3 4
Per doz.... 30c 35c 40c 45c

Reliance.
Per doz.....light $1.25; heavy $2.50
Star.
Per doz...... light 90c; heavy $1.35
Torrey's...............per doz. $1.35
Warner's No.......... 11 13
Per doz.............. 75c $1.35

SQUARES.
Steel and Iron..................70&10%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12..................60%
Try.
Stanley's No. 20, new list...45&10%
" No. 12 and 14.........55%
Try and Bevel.
Stanley's.......................55&5%
Try and Miter.
Fox's...................per doz. $5.75
Winterbottom s..................70%

SQUEEZERS, LEMON.
Common Wood.........per doz. $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum, japanned......... " 3 60
Drum, nickel plated .... " 4 50

STAPLES.
Blind.
Barbed................per ℔ 9¼@9¾c
Butter Tub.............. " 8@8¼
Fence—less than carload.
Polished.............per 100 ℔ $2 30
Galvanized.......... " 2 60
Netting.
Galvanized...........per 100 ℔ 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples...................85&10%
Extra heavy.......................85%

STEELYARD.
Discount 30%

STONES.
Axe.
Hindostan..............per ℔ 5½@7c
More Grit............. " 9½c
Washita .... " 17 c
Emery.....................60%@60&5%
Oil—Mounted.
Arkansas Hard......per doz. $23 00
Arkansas Soft....... " 15 50
Hindostan.............per ℔ 6¼@6¾
Oil—Unmounted.
Arkansas Hard.........per ℔ $2 05
Arkansas Soft.......... " 1 10
Lily White.............. " 45
Queer Creek............ " 15
Ouachita................ " 38
Washita................. " 26
Sythe.
Black Diamond.......per gro. $8 00
Crescent............... " 4 25
Gem Corundum....... " 7 50
Green Mountain...... " 4 50
La Moille .... " 7 00
Quinnebog............. " 5 00
Red End................ " 3 75

STOPS, BENCH.
Hotchkiss'..............per doz. $3 50
Stearns'.................. " 4 75

STOPPERS, FLUE.
Common.................per doz. $0 40
Crown .... " 45
Gem, flat, painted...... " 85
Gem, cor'd, decorated.. " 70
Kirch's.................... " 90
Perfect.................... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.
Scoop...............per doz. prs. $1 85
Skate.............. " " 60@70c

STRETCHERS.
Carpet.
Bullard's...............per doz. $3 00
Excelsior.............. " 5 25
Malleable Iron........ " 70
Perfection............. " 6 30
King.................... " 4 50
Wire.
N. S. Elwood's....... " 6 00
O. S. Elwood's....... " 6 00
Little Giant........... " 5 75
Safety.................. " 10 00
Star Lever............. " 6 25
Star Tackle Block.... 9 50
Warner's............... " 6 25

SWIVELS.
Malleable Iron...............per ℔ 07
Wrought Steel...........per gro. $4 50

TACKS.
American Cut..................90&20%
American Wire...........85&25&10%
Bill Posters Cut..............90&30%
Blued Carpet..................90&10%
Tinned Carpet.................90&10%
Gimp.............................90&10%
Upholsters' Cut..............90&33⅓%
Upholsters Wire..............90&10%
Double Pointed...............90&20%
Copper.......................per ℔ 32c
Canvas Nails...................75&5%
Clout Nails.....................75&5%
Hungarian Nails..............80&5%

TAPES, MEASURING.
Asses' Skin......................40&5%
Bend Leather......................20%
Patent Leather....................20%
Lufkin s Steel......................25%
Lufkin's Metallic..................30%

TEE BEVELS—See Bevels.

THERMOMETERS.
Tin Case...........per doz 80c@$1 25
Wood Back........ " $2.00@12 00
Glass.............. " 12 00

TIES.
Bale.
Single Loop....................80&10%
All other kinds....................70%
Cow—See "Chains."

TOOLS, SAW.
Atkins' Dexter..........per doz. $4 50
Atkins' Excelsior...... " 6 50
Disston's Universal..............40%
Minature.
Smith & Hemenway..............25%

TRAPS.
Fly.
Balloon..................per doz. $1 15
Harper's................ " 1 25
Game.
Newhouse......................40&10%
New Victor.....................70&10%
Mole.
Reddick's...............per doz. $6 00
Mouse and Rat.
Wood Choker...per doz. holes $0 10
Tin Choker..... " " 10
Delusion..............per doz. 1 00
Marty Rat.............. " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse........... " 3 00
Marty Mouse Imitation " 2 00

TROWELS.
Brick.
Standard...........................40%
Brade's..........................15&5%
Disston's...........................30%
Rose's..............................25%
Plasterers.
Standard...........................40%
Disston's...........................25%
W. & McP..........................25%

TRUCKS.
Bag.........................each $2 75
Handy...................... " 1 85
Warehouse....................50&10%
No.............. 1 2 3
Half Ironed.... $3.00 $3.85 $5.50
Full Ironed.... 3.45 4.50 6.45

TUBS, WASH.
Standard. Ex.
Nos........ 3 2 1 large
Per doz....$5.00 $6.00 $7.00 $ 9.50
Dowell.
Per doz.... 5.35 6.35 7.00 9.50
Cedar.
Per doz.... 6.10 7.10 7.90 10 80
Indurated.
Per doz.... 8.55 9.45 10.80 13.50
Galvanized.
No............... 1 2 3
Per doz...........$4.85 $5.75 $6.50

TWINE.
Per ℔
3-ply Cotton Wrapping............25c
4 " " " 25c
4 " " Extra Wrapping......27c
4 " " " Hvy. Wrapping..25c
4 " " Wrapping on tubes...27c
3 " " " " cones...25c
4 " " " " " ...25c
India Hemp, ¼-lb. balls...........17c
" " ½-lb. " 16c
" " ¼-lb. " ....doz. 63c
2-ply " ¼-lb. " 11c
3-ply " ¼-lb. " 10c
Jute Wrapping, ¼-lb. balls........14c
Jute Wool, 1-℔. balls..............8½c
Seine.
Nos............. 9 12 15+
Soft.......per ℔ 26½ 26 25
Med...... " 26½ 26 25
Hard .... " 27 26½ 26
Staging, ¼-lb. ball, size 21......26½c
" " " " 24.......26c
" " " " 27.......26c
Bagging " " 23c
3-ply "B" in hanks.................18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
130-strand.........................6¾c
200 strand.........................7¼c

VISES.
Phoenix............................35%
Cheney's...........................20%
Parker's Oval Slide.......50, 10&2½%
Sargent's Oval Slide,
In. 2½ 3 3½ 4½
Ea. $1 00 $1 25 $1 65 $2 00
Parker's Parallel.............18&20%
Parker's Victor....................15%
Parker's Combination............75%
Solid Box..........................50%
Adam's Mechanics'..........each 2 50
Williamson Universal............60%

WARE.
Stove Hollow Ware.
Plain or Unground...............60%
Ground Ware...............50&10%
Enameled Ware..................50%
Country Hollow Ware, per 100 lbs. $2.75
White Enameled Ware.
Maslin Kettles.......60&10&10&5%
Covered Ware, Tinned and Turn'd. 40%
Enameled 50%
Glue Pots, Tinned...............30%
Enameled.............35%
Enameled.
Cherry Blossom and Chrysolite. 50%

WASH BOARDS—See Boards.

WASHERS.
Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5 ℔. boxes, per ℔.
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.
Ax.....................per doz....30
Galling..................per ℔ 10¾
Saw....................... " 8¼

WEANERS.
Calf.
Fuller's, per doz......$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz...... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz....... 3 50 to 4 60

WEIGHTS.
Hitching.....................per ℔ 2½c
Sash—F.O.B. Chicago...pr ton $24 50

WHEEL BARROWS.
Common Railroad....per doz..$15 50
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No C4 Tubular " 43 Bryan..each 4 60
No. C5 " " 45 " " 5 25

WHEELS.
Corundum..................70&10&5%
Emery..........................75&5%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.
Barbed Painted. Galv'd.
Carloads..per 100 lbs..$2.30 $2.60
Less than car " .. 2.35 2.65
Brass.
In coils............................20%
In 1 ℔ spools, new list......50&10%
Broom—Tinned........60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils...............20&10% 33⅓%
In 1 ℔ spools, new list .... 50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2.10
Nos. 6 to 9, Galvl'd... " 2.40
Hair—New list.................50&10%
Market.
Bright, full bdles...........70&10%
Bright, broken bdles............70%
Coppered, full bdles............70%
Coppered, broken bdles.....65&10%
Tinned, full bdles..............70&5%
Tinned, broken bdles.......65&10%
Picture—In coils........80%@80&10%
In 5 ℔. spools..........per ℔..26c
Plain—Small lots................$2.10
Car lots..........................2.05
Small spools 5c per hundred higher.

WRENCHES.
Acme Standard....................60%
Alligator.......................75&10%
Always Ready..................50&10%
Bemis & Call No. 2 Improved Pipe Wrenches..................80%
Coe's Standard...............40&10&5%
Agricultural....................75&10%
Ellis Adjustable...................25%
Malleable "S"..............per ℔. 06c
Malleable......................... " 06c
Stillson Pipe......................70%
Trimo " ....65&10%

WRINGERS.
No. 22, Guarantee....per doz. $32 00
No. 110, Guarantee.... " 32 00
No. 110, Brighton..... " 22 00
No. 110, Bicycle ...... " 31 00
No. 500, Royal .... " 32 00
No. 350, Universal.. " 27 00
No. 300, Novelty.... " 27 00
No. 310, Keystone.. " 27 00
No. 100, Rival .... " 22 00
No. 330, Relief..... " 27 00
No. 200, Superior... " 24 00
No. 10, Fresh Water " 18 00
No. 15, Star .... " 16 00

ADVERTISERS' INDEX.

ALPHABETICAL LIST.

A-B Polish Co. ... 17
Adler, H. Co. ... 19-61
Ajax Portable Hand Punch Machine Co. ... 62
American Bolt & Screw Case Co. ... 72
American Furnace Co. ... 12
American Lock Nut Co. ... 62
American Sheet & Tin Plate Co. ... 58
Arcade Mfg. Co. ... 11
Auer Register Co. ... 19
Auld & Congor Co. ... 59
Avery Stamping Co. ... 68
Barnett, G. & H. Co ... 1
Beckman Bros. ... 76
Beckwith, Estate of P. D ... 22
Benbow-Brammer Mfg. Co. ... 72
Berger Bros. Co ... 65
Berger Mfg. Co. ... 56
Bertsch & Co ... 56
Bickelhaupt, G. Skylight Wks ... 53
Bishop, G. E. ... 55
Blick-Williams Co. ... 67
Born Steel Range Co. ... 18
Boynton Furnace Co ... 13
Brammer, H. F. Mfg. Co ... 73
Brauer, A. G. ... 52
Bridgeport Chain Co ... 1
Bridgeport Crucible Co ... 52
Briscoe Mfg. Co. ... 67
Burgess Soldering Furnace Co. ... 62
Burton, R. C. ... 50
Burton. W. J. Co ... 59
Butler Bros. ... 21
Calander, Jno ... 68
Canton Art Metal Co. ... 54
Canton Mfg. Co. ... 53
Carver File Co ... 76
Chappell Furnace Co. ... 18
Clark, Quien & Morse ... 61
Clayton & Lambert Mfg. Co. ... 62
Clipper Lawn Mower Co. ... 67
Cole Manufacturing Co. ... 4
Columbus Bolt Works ... 1
Comstock-Castle Co. ... 3
Cooney & Geiger ... 76
Connors, Wm. Paint Mfg. Co. ... 1
Cope, Geo. W. Pattern Works ... 52
Cortright Metal Roofing Co. ... 58
Cyclone Woven Wire Fence Co. ... 64
Dana Mfg. Co. ... 73
Davies Automatic Shear Co. ... 66
Delta File Works ... 79
Denning Wire & Fence Co. ... 64
Detroit Heating & Lighting Co. ... 14
Diamond Saw & Stamping Co. ... 68
Dieckmann, Ferd. ... 57
Diener, Geo. W. ... 62
Disston, Henry & Sons ... 75
Dixon, Jos. Crucible Co. ... 49
Dreis & Krump ... 62
Duby & Shinn ... 70
Eagle Cooperage Wks. ... 73
Edwards Mfg. Co. ... 59
Eller Mfg. Co. ... 53
Enterprise Mfg. Co. ... 76
Enterprise Paint Mfg. Co. ... 65
Evans Stamping & Plating Co. ... 52
Exhibit & Trading Co. ... 76
Federal Stove Co ... 15
Ferrosteel Co. ... 18
Follansbee Bros. Co. ... 76
Forest City Fdy. & Mfg. Co. ... 13
Foster Stove Co. ... 6
Fox's Tools ... 70
Friedley-Voshardt ... 53
Garland Nut & Rivet Co. ... 1
Garry Iron & Steel Co. ... 54
Gerock Bros. Mfg. Co. ... 62
Gillete Sales Co. ... 63
Glazeer Stove Co. ... 11
Globe Ventilator Co. ... 76
Goodell-Pratt Co. ... 70-74
Graff Furnace Co. ... 15
Grand Rapids Hand Screw Co. ... 69
Green Fdy. & Furnace Works ... 17
Griffin Mfg. Co. ... 69
Harrington & King Perforating Co ... 53
Haynes-Langenberg Mfg. Co. ... 10
Heller, W.C.Co. ... 67
Hemp & Co ... 70
Henry & Scheible Co ... 14
Hess-Snyder Co ... 14
Hill Dryer Co. ... 73
Hoffman, Geo. W. ... 67
Hooper, C. N. ... 67
Hotchkiss, E. S. ... 63
Howard Thermo. Co. ... 11
Hungerford, U.T., Brass & Copper Co ... 55
Ideal Epworth Acetylene Co. ... 59
Independent Register Co ... 14
James & Meyer Buggy Co. ... 64
Johns-Manville, H. W. Co. ... 59
Johnson, E. J. & Co. ... 59
Kampfe Bros. ... 63
Kanneberg Roofing & Ceiling Co. ... 58
Kees, Mfg. Co ... 69
Keighley Met. Ceil. Co. ... 54
Kelsey Heating Co. ... 2
Kimball Bros. Co ... 72
La Crosse Steel Roofing Co. ... 55
Lawson Mfg. Co. ... 70
Lenox Hotel ... 66
Lott-Burton Co ... 16
Lufkin Rule Co. ... 56
Magee Furnace Co. ... 16
Maher & Son ... 64
Mannen & Esterly Co. ... 15
Manufacturers' Stove Repair Co ... 52
Marlin Firearms Co. ... 66
McClure Co. ... 76
Merchant & Evans ... 55
Meyer F. & Bros. Co. ... 7
Meyer Furnace Co. ... 19
Monarch Grubber Co. ... 62
Monroe Fdy. & Furnace Co ... 14
Mueller, L. J. Furnace Co. ... 8
National Sheet Metal Roofing Co ... 59
Niagara Machine & Tool Works ... 62
Niles Corrugating Co ... 61
North Bros. Mfg. Co. ... 65
Obermayer, S. Co. ... 53
Parkersburg Iron & Steel Co. ... 60
Paxson J. W. Co., The ... 52
Paxton & Gallagher Co. ... 72
Peck, C. A. Hdw. Mfg. Co ... 66
Peters Cartridge Co. ... 75
Pittsburgh Steel Co ... 64
Plume & Atwood Mfg. Co. ... 57
Powers Bros ... 76
Pullman Mfg. Co. ... 70
Quincy Pattern Co. ... 52
Reed Mfg. Co. ... 71
Reeves Mfg. Co. ... 54
Richardson & Boynton Co. ... 10
Richmond Cedar Works ... 72
Ringen Stove Co ... 5
Robinson Furnace Co. ... 12
Rochester Radiator Co. ... 18
Roseland Can & Specialty Co. ... 68
Safety Door Hanger Co. ... 1
Sayre Stamping Co. ... 51
Schoedinger, F. O. ... 61
Schwab, R. J. & Sons Co. ... 17-19
Security Lightning Rod Co. ... 64
Shaw & Keller ... 52
Signal Mail Box Co. ... 67
Simmons Hdw. Co. ... 74
Smith Bros. Mfg. Co. ... 67
Smith, Chas. Co. ... 16
Smith & Hemenway Co. ... 67
Sperry, D. R. Co. ... 68
St. Paul Roofing, Cornice & Ornament Co. ... 58
Stanley Rule & Level Co. ... 70
Stanton Heater Co. ... 16
Star Enameling & Stamping Co. ... 69
Star Expansion Bolt Co. ... 76
Stevens, J., Arms & Tool Co. ... 75
Stewart Iron Works Co. ... 63
Stolz, Frank D. ... 17
Stove & Range Co. of Pittsburgh ... 2
Stowell Mfg. Co. ... 59
Stuber & Kuck ... 76
Tanner & Co. ... 57
Taylor & Boggis Fdy. Co. ... 51
Thatcher Furnace Co. ... 21
Troy Nickel Works ... 51
Turner Brass Works ... 62
U. S. Clothes Pin Co. ... 68
Van, John Range Co. ... 9
Vedder Pattern Works ... 52
Victor Stamping Co ... 60
Vollkommer & Co. ... 72
Walworth Run Fdry. Co. ... 9
Ward-Dickey Steel Co. ... 60
Weiss, H. & Co ... 53
Weiss, L. T. ... 63
Weller Pattern Co. ... 52
Wheeling Corrugating Co. ... 56
Whitacre Mfg. Co., J. E. ... 69
White Lily Washer Co ... 72
Wiebush & Hilger ... 63
Yale & Towne Mfg. Co. ... 69
Youngstown Furnace & Supply Co. ... 15
Zucker & Levett & Loeb Co. ... 51

CLASSIFIED LIST.

Acetylene Generators
Ideal Epworth Acetylene Co., Johnstown, Pa.

Ash Sifters
Hill Dryer Co., Worcester, Mass

Ammunition
Peters Cartridge Co., Cincinnati, O
Stevens, J Arms & Tool Co., Chicopee, Mass

Bolts
Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

Brass and Copper
Hungerford, U. T., Brass & Copper Co. New York. N. Y.
Plume & Atwood Co., Chicago

Buggies
James & Meyer, Lawrenceburg. Ind.

Cans
Stuber & Kuck, Peoria Ill

Carpenter Benches
Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools
Duby & Shinn Mfg. Co., New York City
Stanley Rule & Level Co., N. Britain, Ct
Wiebush & Hilger, New York City

Cartridges
Peters Cartridge Co., Cincinnati, O

Cases
American Bolt & Screw Case Co., Dayton, Ohio

Cast Iron Chutes
Chappell Furnace Co., Morenci. Mich

Ceilings—Metal
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, Ohio
Eller Mfg. Co., Canton, O
Friedley & Voshardt. Chicago, Ill
Kanneberg Roofing & Ceiling Co., Canton, O
Keighley Met. Ceiling Co. Pittsburg, Pa
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Wheeling Corrugat'g Co., Wheeling, W. Va

Chains
Bridgeport Chain Co., Bridgeport, Ct

Chains—Jack and Safety
Hungerford, U. T. Brass & Copper Co., New York

Chimney Tops
Powers Bros, Streator, Ill

Clippers
Hotchkiss, Edward S., Bridgeport, Ct

Clips—Carriage Trimmer's
U. S. Clothes Pin Co., Montpelier, Vt

Clothes Dryers
Hill Dryer Co., Worcester, Mass
Mannen & Esterly, Cleveland, O

Clothes Pins
U. S. Clothes Pin Co., Montpelier, Vt

Coal Hods
Victor Stamping Co., Cleveland, O

Coal and Wood Chutes
Chappell Furnace Co., Morenci, Mich

Coil Springs
Pullman Mfg. Co., Rochester, N.Y

Combination Boilers
Stoltz, F. D., Chicago, Ill
Smith, Chas. Co., Chicago

Conductor Hangers
Berger Bros. Co., Philadelphia, Pa

Conductor Pipe
Berger Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus. Ohio
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Copper and Brass
Hungerford, U. T., Brass & Copper Co, New York, N. Y
Plume & Atwood Co., Chicago

Corn Cribs
Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices
Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cornice Brakes
Bertsch & Co., Cambridge City, Ind
Dreis & Krump, Chicago, Il
Niagara Machine & Tool Wks., Buffalo, N.Y

Cutlery
Davies Automatic Shear Co., New York, N. Y
Gillette Sales Co., New York, N. Y
Hotchkiss, Edward S., Bridgeport, Ct
Kampfe Bros. Mfg. Co., New York, N.Y
Smith & Hemenway, Co., New York
Weiss, L. T. Brooklyn

Cut Offs—Rain Water
Cooney & Geiger, Indianapolis, Ind
La Crosse Steel Roof. Co., La Crosse, Wis

Dampers
Sayre Stamping Co., Sayre, Pa

Door Hangers
Griffin Mfg. Co., Erie, Pa

Drills—Automatic
Goodell-Pratt Co., Greenfield, Mass

Eaves Trough
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Whitacre Mfg Co., J. E., Rockford, Ill

Elbows—Conductor Pipe
Dieckmann, F., Cincinnati O
Eller Mfg. Co., Canton, O
Wheeling Corrugating Co., Wheeling, W. Va

Electro Plating Outfits
Zucker, Levett & Loeb, New York, N.Y

Elevators
Kimball Bros. Co., Council Bluffs, Ia

Enameled Ware
Briscoe Mfg. Co., Detroit
Reed Mfg. Co., Newark, N. Y
Roseland Can & Spec. Co., Rockford, Ill
Star Enameling and Stamping Co., Pittsburgh, Pa

Enameling and Stamping Plants
Volkommer & Co., Pittsburg

Engineers & Contractors
Volkommer & Co., Pittsburg

Firearms
Marlin Firearms Co., New Haven, Ct
Stevens, J. Arms & Tool Co., Chicopee, Falls, Mass

Fishing Tackle
Enterprise Mfg. Co., Akron, O

Fencing—Wire
Cyclone Fence Co., Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Fences—Iron
Stewart Iron Works Co., Cincinnati, O

Files
Barnett, G. & H. Co., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa
Disston Henry & Sons, Philadelphia, Pa

Forming Rolls
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y

Foundry Supplies
Obermayer, S. Co., Cincinnati, O
Paxson, J. W. Co., Philadelphia, Pa

Furnaces—Hot Air
American Furnace Co., St. Louis, Mo
Beckwith, Estate, P. D. Dowagiac, Mich
Boynton Furn. Co., New York & Chicago
Chappell Furnace Co., Morenci, Mich
Detroit Heating & Lighting Co., Detroit, Mich
Forest City Fdy. & Mfg. Co., Cleveland, O
Graff Furnace Co., New York and Decatur, Ill
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg Co., St. Louis
Henry & Scheible Co., Cleveland, O
Hess, Snyder Co., Massilon, O
Kelsey Heating Co., Syracuse, N. Y
Lennox Furnace Co., Marshalltown, Ia
Magee Furnace Co., Boston
Mannen & Esterly Co., Cleveland, O
Meyer Furnace Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Richardson & Boynton Co., Chicago
Robinson Furnace Co., Chicago
Schwab, R. J. & Sons Co. Milwaukee, Wis
Stanton Heater Co., Martin's Ferry, O
Thatcher Furnace Co., New York, N.Y
Youngstown Furn. & Supply Co., Youngstown, O

Furnace Pipe and Fittings
Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer F. Bros. & Co., Peoria, Ill
Mueller, L. J. Furn. Co., Milwaukee, Wis

Furnace Rings
Walworth Run Fdry Co., Cleveland, O

Gas Appliances
Adler, H. Co., Carnegie, Pa

General Merchandise
Butler Bros., Chicago, Ill

Hand Screws
Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machines
Ajax Portable Punch Co. Chicago
American Lock Nut Co., Oregon, Ill

Hangers—Door
Safety Door Hanger Co., Ashland. O

Hangers—Garment
Pullman Mfg. Co., Rochester, N.Y

Hardware Delivery Wagons
Sycamore Wagon Works., Sycamore, Ill

Hardware Jobbers
Clark, Quien & Morse, Peoria
Paxton & Gallagher Co., Omaha

Hardware Specialties

Bishop Hdw. Co., Dowagiac, Mich.
Carver File Co., Philadelphia, Pa
Kees Mfg. Co., Beatrice, Neb
Peck, C. A., Hdw. Co., Berlin, Wis
Pullman Mfg. Co., Rochester, N. Y
Taylor & Boggis Fdy. Co., Cleveland, O

Heaters—Steam and Hot Water

Haynes-Langenberg Mfg. Co., St. Louis
Magee Furnace Co., Chicago
Mueller, L. J. Furn. Co., Milwaukee, Wis

Heater Combination

Smith, Chas., Co., Chicago
Stolz, F. D., Chicago, Ill

Hinges

Griffin Mfg. Co., Erie, Pa
Kees Mfg. Co., Beatrice, Neb
Lawson Mfg. Co., Chicago, Ill

Hollow Ware

Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Ice Cream Freezers

North Bros. Mfg Co., Philadelphia, Pa
Richmond Cedar Wks., Richmond, Va

Industrial Plants

Vollkommer & Co., Pittsburgh, Pa

Iron Fence

Stewart Iron Works, Cincinnati, O

Kitchen Utensils

Avery Stamping Co., Cleveland, O

Ladders—Shelf

Calander, John, St. Paul, Minn

Lanterns

Berger Mfg. Co., Canton, O

Lawn Mowers

Briscoe Mfg. Co., Detroit, Mich
Clipper Lawn Mower, Dixon, Ill

Levels

Baker-McMillen Co., Akron, O
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems

Ideal Epworth Acetylene Co., Johnstown, Pa.

Lightning Rods

Maher & Sons, Preston, Ia
Security Lightning Rod Co., Burlington, Wis

Locks

Yale & Towne Mfg. Co., New York, N.Y

Mail Boxes

Blick-Williams Co., Indianapolis, Ind
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Chicago, Ill
Peck, C. A. Hdw. Co., Berlin, Wis

Metal Lath

Wheeling Corrugat'g Co., Wheeling, W.Va

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Polish

Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Edwards Mfg. Co., Cincinnati, O
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City
Wheeling Corrugating Co., Wheeling, W. Va

Miters

Whitacre Mfg. Co., J. E., Rockford, Ill

Mop Wringers

Dana Mfg. Co., Cincinnati, O
Eagle Cooperage Wks., Circleville, O

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York

Nickel Trimmings

Troy Nickel Works, Troy, N.Y

Nuts

American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus, O
Garland Nut & Rivet Co., Pittsburgh, Pa

Paints

Connors, Wm., Paint Mfg. Co., St. Louis
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago

Pencils

Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Photograph Clips

U. S. Clothes Pin Co., Montpelier, Vt

Pistols

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes

Stanley Rule & Level Co., New Britain, Ct

Pumps

Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Kess-Snyder Co., Massillon, O

Punches

Ajax Portable H. P. Mach. Co., Chicago
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Diener Geo. W. Mfg. Co., Chicago
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Radiators

Rochester Radiator Co., Rochester N.Y

Ranges

Beckwith, P. D. Estate, Dowageac, Mich
Born Steel Range Co., Cleveland, O
Cole Mfg. Co., Chicago
Foster Stove Co., Ironton, O
Pittsburg Stove & Range Co., Pittsburg, Pa
Ringen Stove Co., St. Louis, Mo
Van, John, Range Co., Cincinnati, Ohio

Rasps

Disston, Henry & Sons., Philadelphia, Pa

Razors

Gillette Sales Co., Times Bldg., New York City
Kampfe Bros., New York, N. Y
Smith & Hemenway Co., New York

Registers

Auer Register Co., New York
Ferrosteel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Independent Register Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis

Rifles

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Roofing

Johns-Manville, H. W. Co., New York, N.Y
Kanneberg Roofing & Ceiling Co., Canton, O
Niles Corrugating Co., Niles, O

Roofing—Asphalt

Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Roofing Cement

Garry Iron & Steel Co., Cleveland, O

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules

Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Safety Razors

Gillette Sales Co., Times Bldg., New York City
Kampfe Bros., New York, N.Y

Sash Balances

Pullman Mfg. Co., Rochester, N.Y

Sash Chain, Ribbon & Wire Cord

Pullman Mfg. Co., Rochester, N.Y

Saws and Saw Sets

Diamond Saw & Stamping Co., Buffalo N. Y
Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales

Beckman Bros., Des Moines, Ia

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screens—Radiator

Harrington & King Perforating Co. Chicago, Ill

Screws

Columbus Bolt Works, Columbus, O

Screw Drivers

North Bros. Mfg. Co. Philadelphia, Pa

Scuttle Openers

Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York

Settees—Iron

Stewart Iron Works, Cincinnati, O

Shears—Sheet Metal

Bertsch & Co., Cambridge City, Ind
Davies Automatic Shear Co., New York
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheet Metal Ornaments

Gerock Bros. Mfg. Co., St. Louis, Mo

Sheet Metal Specialties

Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill

Sheets—Black and Galvanized

Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W.Va

Sheets—Planished

Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co. Pittsburgh, Pa
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shelving—Hardware

Heller & Co., Montpelier, O

Shot Guns

Stevens Arms & Tool Co., Chicopee Falls, Mass

Shovels

Avery Stamping Co., Cleveland, O

Sifters

Stuber & Kuck, Peoria, Ill

Skylights

Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O

Skylight Gearing

Bickelhaupt, G., Skylight Works, New York, N. Y
Weiss, H. & Co., New York, N.Y

Slate

Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y

Soldering Furnaces

Burgess Soldering Furnace Co., Columbus, O
Clayton & Lambert Mfg. Co., Detroit
Diener, Geo. W., Chicago
Turner Brass Works, Chicago, Ill

Sporting Goods

Enterprise Mfg. Co., Akron, O

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, New York City, N.Y
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Steel Roofing

Eller Mfg. Co., Canton, O
Garry Iron & Steel Co., Cleveland, O
Niles Corrugating Co., Niles, O
Merchant & Evans Co., Philadelphia, Pa

Stoves and Ranges

Beckwith, P. D. Estate, Dowagiac, Mich
Born Steel Range Co., Cleveland, O
Comstock-Castle Co., Quincy, Ill
Federal Stove Co., St. Charles, Ill
Foster Stove Co., Ironton, O
The Stove & Range Co. of Pittsburgh Pittsburgh, Pa
Ringen Stove Co., St. Louis, Mo

Stoves—Gas

Adler, H. Co., Carnegie, Pa
The Stove & Range Co., of Pittsburgh Pittsburgh, Pa

Stoves—Oil

Glazier Stove Co., Chelsea, Mich

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay

Bridgeport Crucible Co., Bridgeport, Ct

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Pipes

Edwards Mfg. Co., Cincinnati, O
Hemp & Co., St. Louis, Mo
Wheeling Corrugat'g Co., Wheeling, W.Va

Stove Polish

A-B Polish Co., Chicago

Stove Patterns

Cope Pattern Wks., Detroit, Mich
Shaw & Keller, Cleveland, O
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy

Stove Pipe Thimbles

Stuber & Kuck, Peoria.

Stove Repairs

Brauer, A. G., St. Louis, Mo
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings

Troy Nickel Works, Troy, N.Y

Stove Trucks

Arcade Mfg. Co., Freeport, Ill

Stump Pullers

Monarch Grubber Co., Lone Tree, Iowa

Sugar Kettles

Sperry & Co., Batavia, Ill

Tanks

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Tapes

Lufkin Rule Co., Saginaw, Mich

Test Tube Holders

U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Thermostats

Howard Thermo. Co., West Oswego, N. Y

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tinners' Supplies

Tanner & Co., Indianapolis

Tinners' Tools

Lufkin Rule Co., Saginaw, Mich

Tinplate

Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware

Roseland Can & Spec. Co., Rockford, Ill

Tinware Trimmings

Berger Bros. Co., Philadelphia

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Simmons Hdw. Co., St. Louis, Mo.
Wiebush & Hilger, New York City

Tree Guards—Iron

Stewart Iron Works, Cincinnati, O

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co., New York

Tubs and Pails

Wheeling Corrugat'g Co., Wheeling, W.Va

Valve Regulators

Howard Thermo. Co., West Oswego, N. Y

Vases—Iron Reservoir

Stewart Iron Works, Cincinnati, O

Ventilators

Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y

Wash Boilers

Reed Mfg. Co., Newark, N. J.
Star Enameling & Stamping Co., Pittsburgh, Pa

Washing Machines

Brammer, H. F. Mfg. Co., Davenport, Ia
Benbow-Brammer Mfg. Co., St. Louis, Mo
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va
White Lily Washer Co., Davenport, Ia

Wire Goods

Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES

PATENTS
HUBER & BECK, 623 F. St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—An established plumbing and tinning business, carrying a line of stoves and tinware in a busy town near Springfield. Will set price at inventory and reduce stock to suit buyer. Address S. W. Lyon & Co., Palmer, Mass. 5-3t

For Sale—Good hot air furnace, tin and roofing business, lots of work on hand now; located in central Ohio town of 2,000 population; good reason for selling. Address Good Business, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5-3t

For Sale—Hot air, steam, hot water, heating and ventilating business; make our own furnaces; full set up-to-date furnace pattern tools, machines, stock, etc.; 16 years in heart of Chicago; owner will make low price for quick sale. Address A-43, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5-3t

For Sale—In Estherville, Iowa, bankrupt stock of goods consisting of plumbers and tinners' tools, plumbing and electric light supplies; also small quantity of hardware. Good opening here for a business of this kind. Address A 44, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5-3t

Exchange—160 acres adjoining Blair, Neb.; price, $8,000, for stock of hardware, etc. Land is worth the price and clear of incumbrance, or will exchange equity of $11,000 in improved 320 acres in Nance Co., Neb., for stock of merchandise; give full description in first letter. Address C. A. Nevins, Blair, Neb. 3-3t

For Sale—Up to date hardware with tin and plumbing shop in connection if desired; located in one of the best towns in northern Illinois; population 3,000; 50 miles from Chicago. Invoice about $6,500; no old or out of date stock; everything in first-class condition. Fine opportunity to buy a growing paying business; reason for selling, to settle a partnership; terms to suit purchaser. Address A-35, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3-3t

For Sale—One new two part stone laundry tub, length 4 ft.; depth, 16 inches, width 24 inches and 12 inch back. A bargain for somebody. Address M. V. Brickey, Hoopeston, Ill. 3-3t

For Sale—Nice clean stock of hardware, stoves and tinware, with tinshop; stock will invoice $4,000; good county seat town in southern Indiana; population, 2,000; good reason for selling. Address Lock Box 304, Salem, Ind. 3-3t

For Sale—Nice clean stock of hardware, stoves and tinware, tinshop in connection, located in good farming country in north central Kansas. Stock will invoice about $5,000. Address A-39, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 3-3t

For Sale—After Nov. 1, 1906, a $4,000 stock of clean hardware, located in North Dakota town. Will bear closest inspection. Address A-34, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

For Sale—Hardware stock in town of about 200. Will invoice about $1,500, and doing $6,000 a year. If you can do better do not answer. Address Lock Box 29, Larrabee, Iowa. 2-3t

For Sale—Hardware stock and building in one of the best northern Wisconsin towns, with tin shop in connection; plenty of work the year around; stock and building with fixtures for $7,800; building is 30x80, two stories, solid brick with dwelling above and basement; lot 46x175 ft.; stock and tools invoice about $2,400. Must be sold at once; part payment on time if desired. Address Libal Bros., Lena, Wis. 2-3t

Exchange—Will exchange a good ¼ of Red River Valley land for a clean stock of hardware. Land will bear very close investigation and stand on its merits. Address A-31, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

Wanted—To buy hardware stock about September 1st. Will pay cash for $4,000 to $6,000 stock; must be clean, well located and a paying investment for present owner. Address A-33, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements; also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements; also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

For Sale—Stock of hardware and two-story brick building, 22x80 feet, situated in town of 1,000 in East Central Wisconsin; good farming country, dairying, stock raising, potatoes, grain and sugar beets the principal industries; stock invoices about $4,000; if interested it will pay you to investigate. Address W. & J., care THE AMERICAN ARTISAN, Chicago, Ill. ufm

For Sale—A nice clean stock of hardware with tin shop in connection, doing a good business in southern Wisconsin county seat, within a rich farming country. Only two hardware stores in the city; stock of $4,200. This will bear your investigation. Address Lock Box 52, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

For Sale—Stock of hardware and farm implements in a country town doing a nice business. Tin shop in connection. clean stock and first-class fixtures. Cash deal only considered; reason for selling poor health of one partner. Address A2, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

Wanted—Present address of E. C. Mayham, a contractor or carpenter, formerly from Superior, Wis. Will give one year's subscription for The American Artisan for the first one sending same. Address, Rix, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

TINNERS' TOOLS.

Wanted—A second-hand 8' cornice brake, capable of bending No. 20 iron; must be in first-class condition. Give name and price. Address Rudge & Guenzel Co., Lincoln, Neb. 5-1t*

For Sale—One set of tinner's machine and stakes, square shears and circle shears. These tools are all new and will sell at prices that are right. Address Robt. L. Wilson, 3017 So. Adams St., Peoria, Ill. 5-3t

For Sale—Complete set of tinner's tools in good condition. Must sell at once on account of poor health. Address J. E. Roush, 450 South Main St., Lima, Ohio. 5-3t

For Sale—Set of tinners' tools, except squaring shears, in first-class condition; send for list and price. Address W. W. Stow, Box 211, Spirit Lake, Iowa. 3-3t

For Sale—Cheap or exchange for others, lot of second-hand tinsmith's tools and machines in fair condition. For list and particulars address N. B. Case, Box 169, Havre de Grace, Md. ufn

HELP WANTED.

Help Wanted—Tinner at once for good country shop; good tools and steady job; state wages wanted in first letter. Address Ebert Hdw. Co., Truman, Minn. 5-3t

Help Wanted—Foreman for metal ceiling department, one thoroughly familiar with all branches of the business, splendid opportunity for a good live man; state wages, etc. Address The Edwards Mfg. Co., Cincinnati, O. 5-3t

Help Wanted—At once, three or four cornice makers and tinners; men capable of going out and erecting work; also good shop man. Address Goshen Cornice Works, Goshen, Ind. 5-3t

Help Wanted—Tinner and hot air furnace man; must be sober and reliable; steady job for right party; state age, experience and wages expected; good city in central Ohio. Address A-41, care THE AIMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5-3t

Help Wanted—Tinner wanted, one with experience in store; must speak German; married man preferred; steady work for good man; must be sober, good wages. Address W. R. Yahr, Princeton, Wis. 5-3t

Help Wanted—Good tinner and furnace man; must come at once; will pay good wages to a willing, sober, steady man; also want one good steam fitter and plumber. Address Lock Box 524, Bismarck, N. D. 5-3t

Help Wanted—Wanted for Chicago, a young man who can speak German, as apprentice in retail hardware store; must furnish good references as to character. Address A-42, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5-3t

Help Wanted—Tinner who is able to do pump work; some plumbing; set up machinery and clerk. Steady job for the right man; give age, nationality, experience, reference, married or single; only steady, honest men need apply; state wages wanted. Address Meacham Bros. Co., Edgerton, Minn. ufn

Help Wanted—A first-class tinner; good on skylight and cornice; an all around mechanic; must be sober; 8 hours; $4.00 to commence. Address at once, J. Suter, Globe, Ariz. 3-3t

Help Wanted—I will pay $15.00 per week for a good reliable tinner who understands furnace work; steady job by the year and if party is worth more will pay what he is worth. Good shop and good tools. Must have man at once. Address J. V. Hyder, York, Neb. 3-3t

Help Wanted—Tinner, general all around man, one who understands furnace work and can do some plumbing. Address W. H. Brockmay, Palatine, Ill. 3-3t

Help Wanted—A good plumber and tinner in small town, sober and not afraid to work. State wages wanted in first letter. Address Chas. Weydert, Bayou Sara, La. 3-3t

Help Wanted—Tinner wanted; good easy place in nice small town; mostly shop work; some gutter hanging; also assist in store; good fellow to work for. Address Kratz Bros., Mattoon, Wis. 3-3t

Help Wanted—Salesmen to handle an exclusive specialty. Liberal commission. Pocket sample. State territory. Address B. S. Co., 859 Rose Bldg., Cleveland, Ohio. 2-3t

Help Wanted—A young man who is sober and industrious, must understand plumbing and heating. A steady job in a good country town; wages, $3.00 per day. Address Albert W. Litchfield, Libertyville, Ill. 2-3t

Help Wanted—At once a good tinner and furnace man. Give references, also wages wanted in first letter. Address C. G. Ballhorn, Welcome, Wis. 2-3t

Help Wanted—A good metal pattern fitter on stove and range work, one capable to take charge of shop preferred. Address Belleville Stove & Range Co., Belleville, Ill. 2-3t

Help Wanted—Tinner and furnace man; also some plumbing but don't care to have a man that can wipe joints. Combination man is what I want; steady job and good wages. Address A-28, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—A first-class all around tinner, German preferred; must be sober. Address, Geo. A. Bruns, Lake Mills, Wis. ufn

Wanted—Cornice makers to assemble and erect. Good wages and steady work to experienced men. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Conductor pipe machine operator; good wages to experienced man. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

HELP WANTED.

Wanted—Salesmen calling on hardware trade with first-class reference for the states of Montana, Wyoming, New Mexico, Georgia, Mississippi Louisiana and Arkansas. Best known and fast selling staple liner made. Address X Y Z, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

Wanted—Cornice workers wanted to put together and erect cornice. Need not be cutters. Address The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Spinners wanted to spin sheet copper and zinc work. Must be reliable. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—At once, a good all around tinner who thoroughly understands inside and outside work, pipe fitting and some plumbing. Steady job for the right man the year around. State wages wanted and references in first letter. Address Rud Puchner, Wittenberg, Wis. ufn

Wanted—First-class salesman, by leading furnace and boiler manufacturer. Only men who have had actual experience in warm air, steam and hot water heating wanted. Prefer men who have sold goods to the trade. Excellent opportunity for the right man. Established trade in territory. Address O. B. J., care THE AMERICAN ARTISAN, Chicago. U. F. N.

SITUATIONS WANTED.

Situation Wanted—Position by a first-class electro plater to take complete charge of plating and polishing with a reliable firm; strictly sober and industrious, first-class references. Address W. P., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 5-3t*

Situation Wanted—By a first-class tinner at in and outside, furnace and job work, or would take charge of shop. Address C. S., 927 Fort Wayne Ave., Indianapolis, Ind. 5-3t

Situation Wanted—By up-to-date tinner; can do plumbing, hot water and furnace work also; age 30, single, sober and practical; state best wages and full particulars in first letter. Address P. O. No. 120, Wayne, Neb. 5-3t

Situation Wanted—Position as road stove salesman; 12 years' experience; have large acquaintance with stove and hardware dealers in Iowa, Nebraska, Wyoming, Utah, Idaho and Montana; A1 references furnished, and can make good. Would like to hear from some manufacturer that needs a number one stove salesman full of ginger. Address W. J. W., 429 25th St., Ogden, Utah. 5-3t

Situation Wanted—By tinner of 2½ years' experience; understand inside and outside work, roofing, spouting, pipe fitting and all other work that comes to a country shop. State wages and particulars in first letter; steady position wanted near Chicago. Address A-36, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 3-3t

Situation Wanted—Position within the next three or four months, any place but Kansas, by a tinner, plumber and furnace man of fifteen years' experience; can furnish best of references. Position wanted where there is lots of work and want a hustler to do it. Address Work, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 3-3t

Situation Wanted—By an up-to-date hardware man, 23 years' experience; am a practical tinner and hot air furnace man; fair hardware salesman and office man; can earn wages wherever you put me; prefer store job with charge of shop. The Northwest preferred; references. Address A-38, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3-3t

Position Wanted—By tinner, plumber, steam, hot water and hot air furnace heating man; German American; age 34; married; 17 years' experience; A1 references. Address A-37, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 3-3t

Situation Wanted—In city by young man with three years' experience in tin, sheet metal and furnace work. Age 23; best of references, wages reasonable. Address Hardware, 206 E. 55th St., Chicago. 2-3t

Situation Wanted—Practical mechanic, now in charge of furnace business, desires a change. Experienced salesman and would take charge of shop. Best of references. If you are willing to pay for a good man, address A-32, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 2-3t

SPECIAL NOTICES.

WANTED

Salesmen calling on the retail hardware trade to sell an article of merit. It is an article that sells for six dollars each, and can be placed with fully 90% of the hardware trade of the country. It can be sold from descriptive booklet. For full information address

JOSEPH I. McVOY COMPANY.
99 East Erie Street, Chicago, Ill.

WANTED

At once, 3 solicitors to sell sheet metal specialties. Ready sellers, liberal commission, good territory.

ILLINOIS METAL CEILING AND SUPPLY CO.,
23 Lake Street, Chicago.

Special Notice.

Wanted—Traveling Salesman. To sell a well known line of stoves and ranges. Men wanted for Ohio and Minnesota, must be competent and know the trade. Good salary. Address H. W., care of THE AMERICAN ARTISAN, Chicago, Ill.

FOR SALE

USED MACHINERY—One lot shears 3′ to 8′ in length, both hand and power. One lot light and heavy sheet iron rolls. Also lever punches and shears. BERTSCH & CO., Cambridge, Ind. u. f. n.

Hardware Dealers and Tinners

We have invented the SIMPLEST CONDUCTOR HOOK on the market. Can be made in your shop at a cost of 20 cents per gross. Why pay from $1.00 to $1.50 for others? 50 cents will lay a sample at your shop and you will save the price on the first job. This article is a money saver. You can make them easy. Send to

HARDIN MFG. CO.,
West Liberty, Iowa.

Hardware Specialties Wanted.

We have an efficient organization for reaching retail hardware trade in the central States; we need another line. An opportunity for live hardware manufacturer. Address W. H., care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago.

FOR SALE

Patterns for line of Cast Iron Registers and Faces. Also Dies for Steel Registers with Cast Iron Face. Complete outfit offered at low price if sold before September 1st. F. J. MISHLER, Akron, Ohio. 8-4-11-18

WANTED

3 first-class solicitors for quick selling Sheet Metal Specialties, splendid territory, liberal terms. Address B-7 care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3t 7

WANTED

Tinners, sheetmetal, cornice and skylight workers; open shop; good wages, minimum 35c per hour. Apply Metal Workers' Association, Builders' Exchange, Buffalo, N. Y. u.f.n.

WANTED—FOREMAN

Man to take charge of our Steel Range Dept. Must be thoroughly competent to handle men and get out patterns. We have a good position open for a first-class man and will pay good salary. Apply to THE WM. RESOR & CO., Cincinnati, O. 3t-5

WANTED

Side Line: Salesman calling on heating trade regularly, to sell registers—commission basis. State territory covered, and how often; can make confidential or secret arrangements with good men. Address, SALES MANAGER, 2488 W. 27th St., Cleveland, Ohio. u. f. n.

WANTED

A live commission man to handle, in New England States, one of the largest and most complete lines of furnaces and boilers made in this country—a line that is well known in all parts of the United States. Address "Manufacturer," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago.

WANTED

Ten first-class union cornice makers and tinners. Steady work. Wages, $5.00 per day. Address,

A. C. RULOFSON
SHEET METAL WORKS,
8th and Brannan Streets,
San Francisco.

"THROUGH FRISCO'S FURNACE"
A Souvenir Book of Views Showing High Buildings in San Francisco which had their Steel Work Preserved from Rust with
DIXON'S SILICA-GRAPHITE PAINT
WRITE FOR FREE COPY No. B-18.
JOSEPH DIXON CRUCIBLE CO., Jersey City, U. S. A.

SPECIAL NOTICES.

WANTED

Wood Pattern Makers on Stove-work. Address "Pattern Maker," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill. u. f. n.

HARDWARE WANTED

Have a good improved farm in Iowa and one in Illinois to exchange for a stock of hardware or hardware and implements. Address with full particulars B-4, care of The American Artisan, 69 Dearborn St., Chicago. 415

CHAIN PLANT FOR SALE OR LEASE

The plant of the American Chain Company at Zanesville, Ohio, will be sold at a bargain or leased. Good shipping facilities, cheap, full and ready to start at once. *Address*

R. C. BURTON

TRUSTEE ZANESVILLE, OHIO

Capital Wanted

Am going to establish a Stove Repair business in Chicago, selling dealers ORIGINAL Stove Repairs furnished by stove manufacturers. Have had years of experience in Stove Repair business, and see good opening to furnish repairs from original patterns—a good chance for immediate returns on capital invested; references furnished. Address "Capital," care of The American Artisan, Chicago. 54-26

"BLUE BOOK" CREDITS

—OF THE—

Iron, Steel, Hardware, Stoves, Tinware, Plumbing, Etc., Trades.

This Agency issues as complete and reliable book of credit ratings for this special branch of trade as has ever been published, containing about 400,000 rated names of wholesalers, retailers and manufacturers, covering the trade thoroughly. The ratings are conservative and very reliable. The *paying record* is based upon *ledger experience* of credit men everywhere.

You buy credit information. Isn't it the part of a good buyer to post himself thoroughly on the merits of a book of ratings, gotten up especially for his trade by men with ample capital and who are thoroughly trained in this class of work and who make a *specialty* of it?

Terms of subscription can be had by addressing Executive Office

Iron and Hardware Mercantile Agency.

157 Federal Street. BOSTON, MASS.

A LITTLE SALT

A little salt in the oatmeal adds a flavor, a little oasis makes the desert less barren, "a little nonsense now and then is relished by the best of men." And so it is with trade papers. Line after line, page after page of drawn out, unadulterated technical descriptions are neither entertaining nor edifying. "All work and no play makes Jack a dull boy."

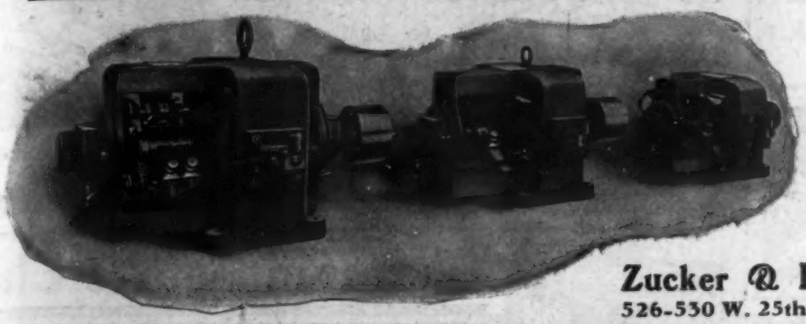
You won't find stories of wild Indian life in

THE AMERICAN ARTISAN

You won't find rhapsodies on the sweetness of Petrarch's erotics. You won't learn why chickens cross the street or whether more than one angel can stand on the point of a needle.

THE AMERICAN ARTISAN is a technical paper. It does confine itself to the lines it represents, but **it expresses these technical descriptions in an interesting way.** It makes a novel out of a tinshop. It makes the description of a furnace something which would appeal to Flossie, sweet sixteen and engaged to be married. It aims to make its readers forget at times the sordid, miserable cares of life in a beautiful optimism and a little dose of salt, humor, joviality or wholesome ridicule—whatever you may choose to call it.

ELECTRO PLATING OUTFITS



Low Voltage Dynamos and Direct Connected Sets

ALL SIZES

We manufacture everything required for polishing and plating.

Send for Catalogue

Zucker & Levett & Loeb Co.
526-530 W. 25th Street, NEW YORK, U.S.A.

Here are a few samples of the "ALASKA"

Stove Trimmings

THE TROY NICKEL WORKS
John E. Gaitley, Prop., ALBANY, N. Y.

ALWAYS COLD—as their name implies. The "ALASKA" is sold everywhere.

NONE BEATS THE
Uncle Sam Damper

It is light, easily adjustable and enduring.

The plate is stamped from best nickled steel and is corrugated to prevent warping. The stem consists of forged steel sharply pointed, notched to engage edge of plate, and is held absolutely in place.

Nothing better on the market.

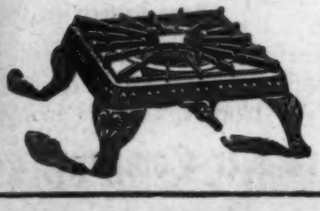
SEND FOR FREE SAMPLE.

Sayre Stamping Co. Sayre, Pa.

THE TAYLOR & BOGGIS FOUNDRY CO.
CLEVELAND, OHIO

MANUFACTURERS OF **LIGHT GRAY IRON CASTINGS**

Builders' Hardware, Dampers and Damper Clips, Oil and Gas Stoves, Furnace Lamps, Molasses Gates, Letter Boxes, Hardware Specialties.



PATTERNS

For Stoves and Heaters

First-class in wood and Iron.

Vedder Pattern Works, Troy, N.Y.

Established 1835

QUINCY PATTERN CO
IRON & WOOD
STOVE PATTERNS
QUINCY, ILL.

The GEO. W. COPE Stove Pattern Works Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN.

WELLER PATTERN CO

DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS

QUINCY, ILL.

SHAW & KELLER

STOVE PATTERN MAKERS

Original Work a Specialty

2108 Superior Viaduct, N. W., CLEVELAND, OHIO

STOVE REPAIRS

MANUFACTURERS' STOVE REPAIR CO.

517-539 Diversey Boul., CHICAGO

Prompt Shipments Give us a Trial

INDUSTRIES ARE OFFERED LOCATIONS

WITH

Satisfactory Inducements,
Favorable Freight Rates,
Good Labor Conditions,
Healthful Communities,

ON THE LINES OF

THE ILLINOIS CENTRAL R. R.

AND THE

YAZOO & MISSISSIPPI VALLEY R. R.

For full information and descriptive pamphlet address

J. C. CLAIR, Industrial Commissioner,
1 Park Row, CHICAGO.

"BRAUER"

if you are looking for the best place to buy stove dealers' supplies, castings and repairs—promptest shipments, etc. Address,

316-318 North Third St. St. Louis, Mo.

Champion Stove Clay

The only Stove Lining made of crucible materials.

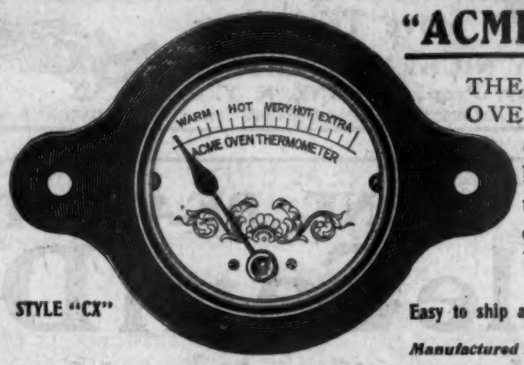
Packed in 2½ lb., 6 lb. and 10 lb. pasteboard boxes.

Order it from your jobber.

The best and most refractory lining made.

Bridgeport Crucible Co., Bridgeport, Conn.

"ACME" OVEN THERMOMETER



STYLE "CX"

THE MOST RELIABLE OVEN THERMOMETER on the Market, as has been proved by some of the largest manufacturers of Stoves in the United States.

Easy to ship and nothing to get out of order.

Manufactured by

THE EVANS STAMPING & PLATING CO., TAUNTON, MASS.

Western Agent: C. H. MATTHEWS, Detroit, Mich.

The Best Stove-Plate Facings

As well as Supplies and Equipments are Manufactured by

J. W. PAXSON CO., Philadelphia, Pa.

What Is It We Can't Give You?

The biggest foundry supply house on earth to-day.

Doing Business for the Past 32 Years

And we certainly ought to be able to give you what you want. Everything for stove foundries and pattern shops from malleable iron to a paint brush.

S. Obermayer Company, Cincinnati Chicago Pittsburg

The Harrington & King Perforating Co.

PERFORATED METALS

OF EVERY DESCRIPTION, FOR ALL PURPOSES AND FOR SCREENS OF ALL KINDS

·CHICAGO·U·S·A·

212 NORTH UNION ST. CHICAGO. 114 LIBERTY ST. NEW YORK.

MAIN OFFICE & WORKS CHICAGO.

ELLER'S METAL CEILINGS

TIN PLATE, CORNICE, SKYLIGHTS

BLUED AND POLISHED STOVE PIPE IRON. EAVESTROUGH, CONDUCTOR PIPE.

STEEL ROOFING & SIDING ETC.

THE ELLER MFG. CO. SUCCESSOR TO J.H. ELLER & CO. CANTON OHIO

H. WEISS & CO.

20 CLIFF ST., NEW YORK

Skylight Gearing and Chain Lifts

Tinsmiths' & Plumbers' Tools.
Cornice Makers' Tools.
Coppersmiths' Tools.
Pipe Threading Machines.

Second-Hand Goods Bought, Sold and Exchanged.

Slitting Machine for No. 12 Iron

Skylight Lift

A new device whereby a skylight can be raised or lowered as easily as a weighted window. Constructed of steel and malleable iron; has a movable slide-holder to adjust itself, and can be opened to any distance desired. Always locks automatically, open or shut. Can be applied to either hipped or flat skylights easily and quickly.

SEND FOR PAMPHLET

G. Bickelhaupt Skylight W'ks

243-245 West 47th St., NEW YORK.

Trade "G. B." Mark.

The Dunlap Mfg. Co., Dunlap, Iowa, write:

"We find much that is of interest and value to us in THE AMERICAN ARTISAN."

FRIEDLEY-VOSHARDT CO., Inc.

MANUFACTURERS OF

Architectural Sheet Metal Work

METAL CEILINGS

Tinners and Cornice Makers Supplies

SEND FOR CATALOGUE

194-204 Mather Street - - CHICAGO

Roofing

Cornice

IT IS NOT

the first cost of a metal ceiling that makes it cheap.

The cost of a ceiling is not complete until the work is accepted by the architect or owner. If the plates do not fit, your expense may be enormous. Better be on the safe side and get "Canton" Metal Ceilings.

We have a reputation for good work.

Our book "Art in Metal Ceilings" free.

The Canton Art Metal Co.,

FORMERLY

The Canton Steel Roofing Co.

CANTON, OHIO

Minneapolis Branch: No. 253 Second Ave., S.

New York Branch:

No. 525 West 23d Street

Ceilings

Eaves Trough

Lock-Joint Metal Cei ing Is Dust-Proof

The advantages of a ceiling being **"absolutely dust-proof"** cannot be over estimated.

Air cannot circulale through the joints of the panels, and deposit dust and dirt and smoke stains on the ceiling.

The settling of the building or the shrinking of the joint cannot start open the joints. Worth considering.

WRITE TO-DAY for CATALOGUE "D"

S. KEIGHLEY METAL CEILING AND MANUFACTURING COMPANY

PITTSBURGH, PA.

NEW YORK 560 Wythe Ave.

BALTIMORE 15-17 W. German St.

BOSTON 514-516 Atlantic Ave.

WASHINGTON 1335 F St., N. W.

A Humorist

once said it was harder to buy than to sell. He referred to the incidental inconveniences—to the delayed shipments, the poor assortments, the skin-flint weight, the care less packing, the sending of something that was never ordered in place of something that was ordered. The humorist was right.

Every dealer knows the trouble and inconvenience caused by carelessness or lack of facilities of the wholesaler. Every dealer who has sent orders to us knows that his shipments are prompt. He knows that he gets what he orders; never less, sometimes more. He knows the stuff is packed well—that it's up to snuff.

We are after *your* order. We want it. We want to prove that we are "the prompt shippers."

Garry Iron & Steel Co.

Cleveland, Ohio

Conductor Pipe, Eaves Trough, Gutters, Roofing, Siding, Corrugated Iron, Tin and Terne Plates, Etc.

THE REEVES MANUFACTURING COMPANY

CANAL DOVER, OHIO

Manufacturers of CORRUGATED, PLAIN ROUND and SQUARE CONDUCTOR PIPE

LAP AND SLIP JOINT EAVES TROUGH,
CONDUCTOR ELBOWS AND SHOES, CUT-OFFS, MITRES, DOVER WIRE HANGERS,
CORRUGATED AND ALL OTHER STYLES OF ROOFING AND SIDING,
DOVER NESTED STOVE PIPE AND DOVER ELBOWS

QUICK SHIPMENTS! SUPERIOR GOODS! LOWEST PRICES!

Our stock of
SHEET COPPER
Is larger and more complete in variety of sizes and kinds than that of any manufacturer in the country, comprising an assortment of
OVER 150 SIZES
and aggregating over
300,000 POUNDS

STAR BRAND
TRADE MARK STAR BRAND
SHEET COPPER
U. T. HUNGERFORD BRASS & COPPER COMPANY
497-505 PEARL ST. NEW YORK 37-43 PARK ST.

Our stock includes
SOFT COPPER
Cold rolled, levelled cornice copper
Cold rolled polished copper
Cold rolled copper, not polished
All stock sizes of above, either TINNED OR PLAIN, on hand in New York ready for immediate shipment

STOCK SHEET SHOWING FULL ASSORTMENT ON HAND. SENT ON REQUEST.

MERCHANT'S CHARCOAL IRON ROOFING PLATES

Trade Mark M&E Registered

The quality of the "Merchant's Old Fashion Iron" is such that we recommend it unhesitatingly to those wanting CHARCOAL IRON plates, and at prices which will prove attractive for quality equal to any.

Send us your inquiries

MERCHANT & EVANS CO.

NEW YORK
BROOKLYN
BALTIMORE

Successors to
MERCHANT & CO., Inc.
MANUFACTURERS
PHILADELPHIA

CHICAGO
KANSAS CITY
DENVER

THERE IS NO BETTER WAY
BETWEEN
CHICAGO
INDIANAPOLIS
AND
CINCINNATI
THAN THE
MONON ROUTE
4 TRAINS A DAY 4

Standard and Compartment Sleepers on Night Trains, Parlor and Dining Cars on Day Trains.

CHAS. H. ROCKWELL, Traffic Manager
FRANK J. REED, Gen. Pass. Agt.
CHICAGO

La Crosse Steel Roofing and Corrugating Co.

MANUFACTURERS OF

EAVES TROUGH
CONDUCTOR PIPE
CUT OFFS
MITRES, ENDS AND DROPS

ROOFINGS AND SIDINGS
STEEL CEILINGS
CORNICES
SKYLIGHTS

QUICK SHIPMENTS OUR SPECIALTY.

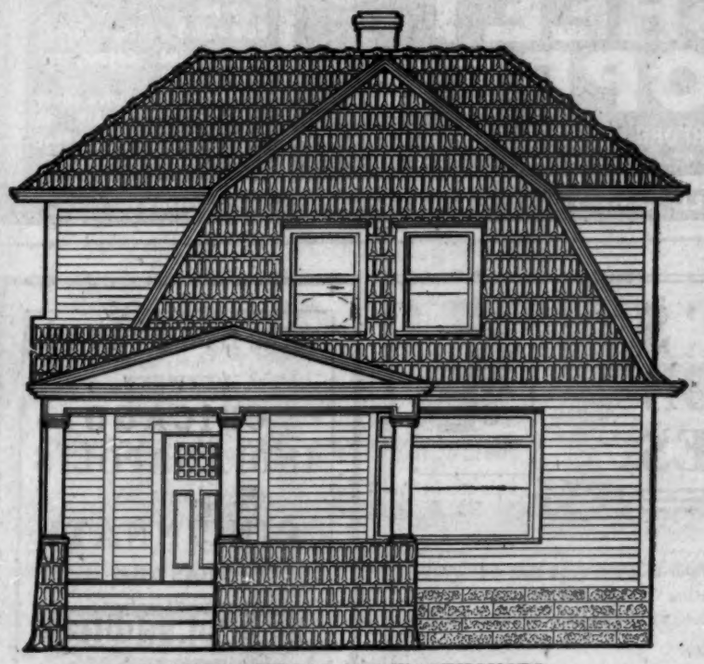
SEND FOR CATALOGUE

F. D. BURGESS,
WAUPACA, WIS., writes,
"I advertised a set of Tinner's Tools in your paper and have sold them, and I have received letters from parties wanting them, from all parts of the United States. That goes to show that The American Artisan has a great circulation."

VIRGINIA METAL SHINGLE ROOFING

FIRE PROOF -- WEATHER PROOF -- ORNAMENTAL

Made of Terne Plate Painted or Terne Plate Galvanized After Forming. Not Expensive.



LET US QUOTE YOU OUR PRICES

Virginia Shingles sidelock and overlap the same as our Dixie Shingles.

The sidelock is perfect. Contraction and expansion is provided for. No solder is used.

The deep overlap makes a storm proof roof. Light in weight.

OUR METAL SHINGLES

are used in all parts of the country. Metal Shingles make a roof ornamental in appearance; a roof that will last indefinitely; a roof that will not leak; will not rattle, and reduces the cost of insurance; requires no expert to lay.

They make a better roof than slate because they require lighter framing, will not break and can be taken off and relaid on another roof without injury or waste.

Our Shingles are made of the best quality full weight roofing plates, carefully painted on both sides with the best iron oxide paint mixed with pure linseed oil. The color is dark red.

Our Galvanized Shingles are galvanized after being formed, thereby leaving no raw edges.

Manufactured By

Wheeling Corrugating Co.

WHEELING, WEST VIRGINIA

MAKERS OF HIGH GRADE OLD STYLE ROOFING TIN

QUALITY THE BEST THAT CAN BE MADE

BRANCH OFFICES AND WAREHOUSES:

New York City, 47-51 Cliff St. Philadelphia, 402, 404, 406 Race St.
Chicago, 23-27 N. Clinton St. Boston, Mass., 132 and 134 Pearl St.
St. Louis, 112,114,116 So. Eighth St. Chattanooga, Tenn., King St.

Large Stocks of all our Products are Carried at the Factory and in all the Warehouses.

Both the æsthetic buyer who aims at decorative effects regardless of cost and the economical builder to whom price is the greatest consideration re satisfied with

"BERGER'S Classik" METAL CEILINGS

The most decorative, the cheapest and most easily sold.

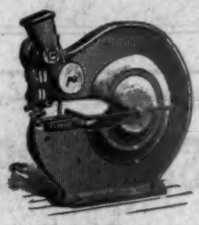
WRITE TO-DAY FOR THE AGENCY

THE BERGER MFG. CO., CANTON, OHIO

MANUFACTURERS OF

Black and Galvanized Sheets, Pure Rehammered Charcoal Iron, Tin Plate Architectural Sheet Metal Work, Steel Window Frames and Sash, Fire-Proofing, Metal Furniture, Corrugated Iron, Steel Roofings, Eaves Trough, Conductor Pipes, Etc., Etc.

LEVER PUNCH



This Lever Punch is made any required size. It is a convenient tool for punching plates, bars or angles. We build a complete line of Shears, Punches and Bending Rolls, all sizes, hand or power.

BERTSCH & CO.

CAMBRIDGE CITY, IND.

J. F. LEWIS, Cisco, Ill., *writes:*
I cannot get along without THE AMERICAN ARTISAN.

Measuring Tapes

Steel, Metallic, Linen, etc. Our goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SAGINAW, MICH.

TINNERS' CONVENTION! TINNERS, ATTENTION!

WHILE ATTENDING THE

NATIONAL SHEET METAL WORKERS' CONVENTION

at INDIANAPOLIS, August 8th, 9th and 10th

do not fail to visit our store rooms at 216-218 South Meridian Street, where we will be pleased to show you the **LARGEST and BEST ASSORTED STOCK of TINNERS' SUPPLIES in the UNITED STATES.**

You are cordially invited to make our office your headquarters while in the city.

SPECIAL AGENTS FOR
PECK, STOW & WILCOX TOOLS and MACHINES
& G. TAYLOR'S OLD STYLE ROOFING PLATES
N'RIFFITHS' GENUINE CHARCOAL IRON ROOFING
9 PLATES
RICHARDJACKSON GENUINE BAN GOR SLATE

TANNER & CO.

This Is One of the

F. Dieckmann

Flat Crimp Conductor Elbows

(PATENTED)

HEAVIEST GAUGE ELBOW ON MARKET

Watch for another one next week. The "Dieckmann" is the only conductor elbow made of one piece of metal. I make 1,225 varieties, in all styles and angles.

FERDINAND DIECKMANN

Station B : : : CINCINNATI, OHIO

SHEET BRASS, All Tempers. BRASS and BRONZE DRILL RODS.
BRASS and COPPER WIRE. GERMAN SILVER SHEET and ROD.
BRAZED and SEAMLESS TUBING.

Eagle Brand Copper Rivets and Burrs
Brass Escutcheon Pins

Brass Butts, Desk Narrow, Broad Middle, Ball Tipped and Water Closet

Brass and Iron Jack Chain, Brass Safety Chain, Etc.
Catalogues on Application.

NEW YORK **THE PLUME & ATWOOD MFG. CO.** CHICAGO

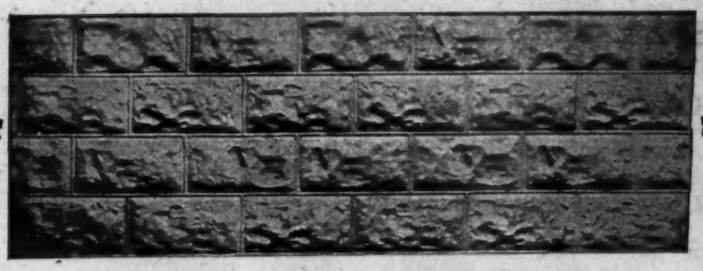
It Is Acknowledged

by the best workmen to be the only way to close the end of an eavetrough, as corrugations are **Proof Against Frost.**

Order a set of tools today from any jobber or tinner's supply house.

G. E. BISHOP, HARDWARE DOWAGIAC, • MICH.

THE BEST ROCK-FACED SIDINGS ARE MADE IN OUR FACTORY



WE INVENTED THEM

We *patented* them, we were the *original* manufacturers, we *introduced* them and we set the standard for the *world.*

Lap or Slip Joints, all Sizes and Designs

St. Paul Roofing, Cornice & Ornament Co.

The Leading Sheet Metal Plant of the West

Steel Ceilings and Store Fronts :: ST. PAUL

More Business and Better Pay

falls to the lot of the tinner who is in a position to lay Cortright Metal Shingles as well as a plain tin roof,

Write us to-day and we'll tell you all about the proposition.

CORTRIGHT METAL ROOFING CO.

Philadelphia and Chicago

Gothic Design—One of the great variety of our

Art Metal Ceilings

We manufacture and always have on hand a large stock of

All Kinds of Sheet Metal Goods

for building purposes, in artistic designs and of first-class material. We furnish

ESTIMATES AND PLANS FREE OF CHARGE

Write for catalogs and price list.

Kanneberg Roofing & Ceiling Co.

CANTON, OHIO, U. S. A.

SIX STANDARD PRODUCTS

USED BY ALL THE LEADING STOVE AND RANGE MANUFACTURERS:

W. Dewees Wood Company's Patent Planished Iron.
Wood's Cleaned Refined Smooth Finish.
Hammered Polished Steel.
Wood's Oak Stove Body.
Wellsville Polished
Range Steel.

MANUFACTURED BY

AMERICAN SHEET & TIN PLATE COMPANY

FRICK BUILDING PITTSBURGH, PA.

It Will Pay You

to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application.

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

ADDRESS

DANIEL STERN

69 Dearborn St., - CHICAGO

Illustration showing application of

The Edwards Metal Shingles,
The Edwards Perfect Hip Shingles,
The Edwards Queen Anne Comb Cresting,
The Edwards Hercules Deck Cresting,

A perfect roof combination.
Write for "Descriptive Shingle Booklet" and prices

THE EDWARDS MANUFACTURING CO.

"The Sheet Metal Folks"

Office and Works:
300-316 Eggleston Ave., Cincinnati, O.

Manufacturers of the most extensive line of Sheet Metal Building Material in the World.

Monarch Roofings

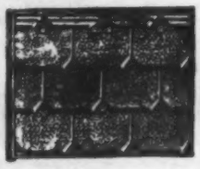
assure to dealers
Liberal Profits,
Enhanced Reputation,
Extended Business,
Satisfied Patronage,
and to consumer
Quality, Durability,
Economy, Satisfaction.

Send for Particulars

Stowell Manufacturing Co.

CHICAGO 47 Market St. — JERSEY CITY 461 Westlowe Ave.

BURTON'S
Eastlake Shingles



Have been on buildings for 17 years, in good condition yet. Better than any metal, slate or wood roofing sold. Write for catalog.

The W. J. Burton Co.
DETROIT, MICH.

"J-M" ASBESTOS ROOFING

An Agent Wanted in Every Town

To handle "J-M" Asbestos Roofing. Our special Agency proposition is the best of its kind. Gives the Dealer a liberal profit and the Customer the best Roofing that money can buy. Our best advertisement is the many buildings of all kinds covered with "J-M" Roofing. Some of our Roofing is in good condition after 25 years of actual service.

WRITE NEAREST BRANCH FOR SAMPLES AND CATALOG

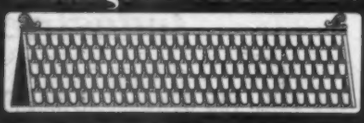
H. W. Johns-Manville Co.

Manufacturers of Asbestos and Magnesia Products, Asbestos Roofings, Packings, Electrical Insulating Material, "Noark" Fuse Devices, Electric Railway Supplies, Etc.

New York, Boston, Minneapolis, Los Angeles, Milwaukee, Philadelphia, Pittsburg, New Orleans, Dallas, Seattle, Chicago, St. Louis, Cleveland, Kansas City, San Francisco, London 249

WALTERS'

Shingles that last



Made from Galvanized Tin and Painted Tin
STORM, RUST AND FIRE PROOF
Do you want to increase your business? THIS IS YOUR OPPORTUNITY. Write for catalogue, samples and prices.
National Sheet Metal Roofing Co.,
JERSEY CITY, N. J.

Write for Circulars and Terms

The Ideal Epworth Acetylene Generators are **Ideal** in construction, **Ideal** in light producing power, **Ideal** in giving out steady light, **Ideal** in selling qualities, **Ideal** in lighting **Dwellings, Stores, Hotels, Churches** and **Towns. Acetylene Light** is the safest, best, cheapest, brightest, finest light in the world, when produced in the **IDEAL EPWORTH GENERATORS.**

Satisfaction Guaranteed. Agents wanted. (Successors to Epworth Gas, Light & Heating Co.) WATERLOO, IA

ROOFING SLATE

We operate our own quarries, manufacture and sell all grades of Slate, Roofers' Supplies, Tools, Cement, Nails, Felt. Write for delivered prices.

THE AULD & CONGER CO.
Dept. 5 CLEVELAND, O.

ROOFING SLATE
SLATE BLACKBOARDS

E. J. JOHNSON & CO.
38 PARK ROW, NEW YORK
Quarries: PENNSYLVANIA AND VERMONT

Prices quoted delivered anywhere. Booklet and complete Price List on application. Wire inquiries given quick attention

The Victor Sells on Its Merits

Years of experience in handling it has proved that the "VICTOR" coal hod is "IT."

Victor hods always have been the best made and they are better now than ever. Strong construction and reinforced bottom is the basis of our guarantee—**THE BEST.**

VICTOR STAMPING CO.

BROADWAY, LOVELAND, OHIO

If you insist on having

PARKERSBURG BLUE

you will get the best blued sheet on the market.

ACME POLISHED

Is of superior excellence for high-class stove and range work.

Send for Samples and Prices.

THE PARKERSBURG IRON AND STEEL COMPANY

PARKERSBURG, WEST VIRGINIA

tions for Industries

ON

THE ERIE, THE COMMERCIAL RAILROAD

Chicago to New York

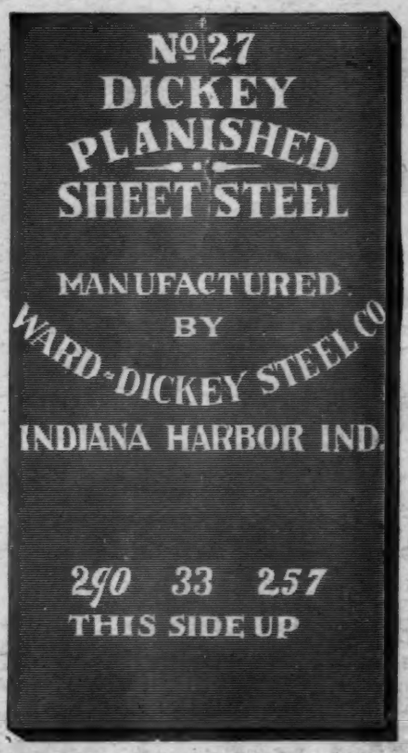
The Erie Railroad System's Industrial Department has all the territory traversed by the railroad districted in relation to resources, markets and advantages for manufacturing, can advise with manufacturers of specific products as to suitable locations, and furnish them with current information of a comprehensive nature dealing with the project in its full relation to manufacture and commerce.

The Erie is one of the greatest of trunk lines. Its own rails connect the two largest cities of America. Every section of the System has its particular merits. Profitable locations exist. It has great general and coal, oil and natural gas resources.

It is important in this age of modern facilities for manufacturers to locate where they can obtain side tracks so as to receive from and ship directly into cars at the factory. Information can be promptly furnished in this connection about every point on the system between New York and Chicago.

Manufacturers' inquiries as to locations are treated in strict confidence, and absolutely reliable information, so as to promote permanent traffic, is furnished. Address

LUIS JACKSON
Industrial Commissioner
Erie Railroad Company.
11 Broadway, New York.



HAMMER Planished

FROM ONE OF THE LARGEST USERS IN THE UNITED STATES.

HOW IT WORKS.

It *stamps* and wears finely, *without breaking or destroying the finish.*

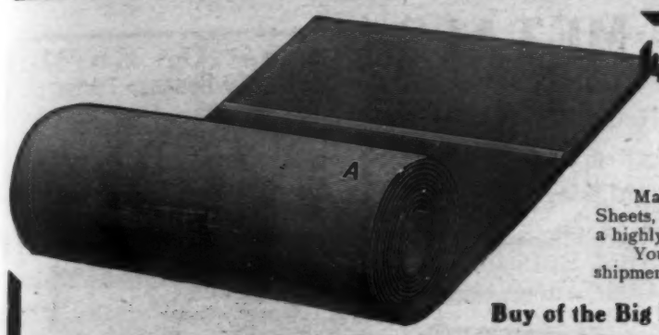
Gauges No. 18 to 28.

Send for Price List.

Manufactured by

Ward-Dickey Steel Co.

INDIANA HARBOR, IND.



Double Cross-Lock Roll Roofing

Made from genuine Vandergrift Apollo Galvanized Sheets, fully guaranteed. Easily applied and durable—making a highly satisfactory roof at a reasonable price.

You will get the best material and workmanship, quickest shipments and fairest treatment if you

Buy of the Big Manufacturer

F. O. SCHOEDINGER, COLUMBUS, O.

Dept. 2. 146 N. THIRD STREET 148

ALL STYLES of CORRUGATED ROOFINGS and SIDINGS

Black and Galvanized Sheet Iron or Steel

Send Us All Your Inquiries **Write for Catalog "D"**

THE NILES CORRUGATING CO.

NILES, OHIO

Our Specialty
INSTANT SHIPMENTS

We Have Our Own
Sheet Mills and Galvanizing Plant

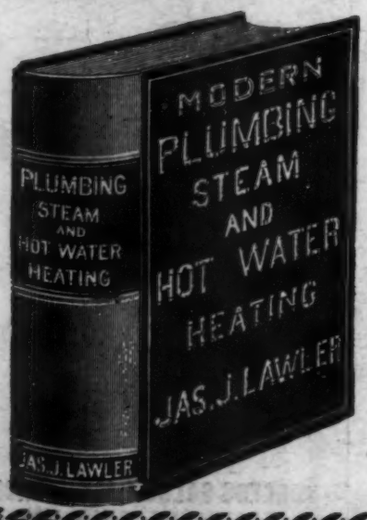
PLECKER'S CORRUGATED EXPANDING CONDUCTORS

Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

CLARK, QUIEN & MORSE, Peoria, Ill.

Modern Sanitary Plumbing.

Steam and Hot Water Heating.



An Encyclopedia of Practical Plumbing.
By JAMES J. LAWLER.
400 pages, large octavo, size 6x9 inches. Price, $5.00.

A reviewer in speaking of this book says:

"This is a book of an intensely practical character. It contains hundreds of drawings and plans and has already taken its place as a leading practical authority in its chosen field."

"Whether the mechanic is looking for information about hot water systems for greenhouses under pressure or is desirous of learning the capacity of the hydraulic ram; whether he is anxious to learn how to make the smoke and peppermint test or wants to protect his well from cesspool soakage; whether he desires a receipt for plumber's soil or is anxious for tips on the location of hot water boilers below the waterback; whether he would delve into the mysteries of exhaust steam heating or would gather points on the box waste connections; whether his work is tapping radiator mains or making repairs in occupied houses; in any of the above or a thousand other cases that will arise in the course of a year's work at plumbing or steam fitting this book will be found to contain a ready key to the technical questions at issue."

For Sale by **DANIEL STERN,**
89 Dearborn St., - - CHICAGO.

TOOLS FOR SHEET METALS

Single and Double Lock Edger.

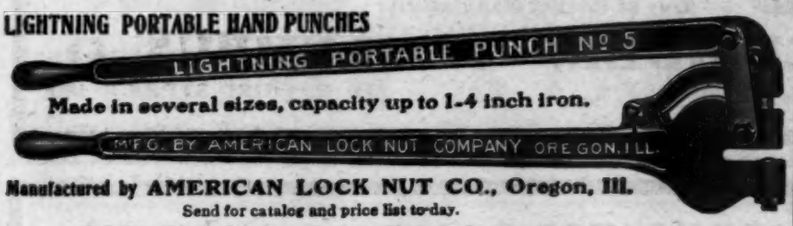
INCLUDING

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies, Can-Making Machinery

MADE BY

NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y.

LIGHTNING PORTABLE HAND PUNCHES



Made in several sizes, capacity up to 1-4 inch iron.

Manufactured by AMERICAN LOCK NUT CO., Oregon, Ill.

Send for catalog and price list to-day.

BEATS THEM ALL

Punches holes easier than any machine of same capacity.

Send for Catalogue and Price List

AJAX PORTABLE HAND PUNCHING MACHINE CO.,
1489 MONTICELLO AVENUE, CHICAGO

Monarch Stump Puller

Will pull 7 ft. stumps without help. Guaranteed for 12 months and a strain of 250,000 pounds. Illustrated catalogue and discounts. Address

MONARCH GRUBBER CO. : LONE TREE, IOWA

GEROCK BROS. MFG. CO.

Sheet Metal Ornaments and Statuary

Detail Work a Specialty. Ask for Catalogue

1227 Manchester Ave., ST. LOUIS, MO.

It Will Pay You

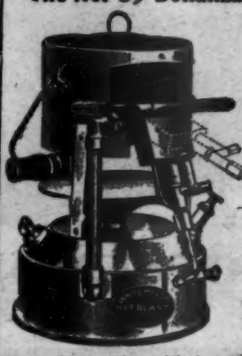
to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application.

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades. Address

DANIEL STERN

69 Dearborn St., Chicago

Hottest On Earth.
The No. 39 Bonanza Furnace



That is what we give you when buying a No. 39 Furnace for all around work. The tank is made of seamless drawn brass. We make many styles of Furnaces and Torches for kerosene as well as gasoline. Our catalog will give you full particulars. Order through any jobber, or send us $4.50; we will ship direct.

THE TURNER BRASS WORKS,
26 No. Franklin Street, - Chicago

LET THE OTHER FELLOW BUY AND USE CHEAP INFERIOR TOOLS

No. 31 Torch, $3.00 Net.

You cannot afford to do so if you wish to be successful.

A torch that will do any given work in less time and that uses less gasoline doing the work cannot help but save you time and money, thus enabling you to make a profit even if the product is sold at the other fellow's cost. **The No. 31 Torch will do that. Try one.** Your money back if you are not pleased. Jobbers sell at factory price.

CLAYTON & LAMBERT MFG. CO.
Detroit, Mich., U. S. A.

ASK YOUR DEALER FOR THE

Sem

Soldering Furnace

AND YOU WILL MAKE NO MISTAKE

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

GALVANIZED IRON, BRASS OR COPPER RESERVOIR.
Equipped with Cylindrical Slotted Burner.

MADE ONLY BY

BURGESS SOLDERING FURNACE CO.
COLUMBUS, OHIO, U. S. A.

STEWART IRON FENCE

AGENTS WANTED

Write for CATALOGUE No. 23 To-day.

THE STEWART IRON WORKS COMPANY
CINCINNATI, OHIO, U.S.A.
"The World's Greatest Iron Fence Works"

HOTCHKISS CLIPPERS

Standard Quality and Workmanship Guaranteed. Prompt Shipment. Prices Right.

Simple in Design. Elegant in Finish.

No. 350 B. B.

Send for Descriptive Catalogue and Prices.

EDWARD S. HOTCHKISS,
IRANISTAN AVE., BRIDGEPORT, CONN.

THE SHAVEZY GUARD

May be adjusted to any blade,
Instantly changed from right to left.
Is the best and a Cheap Guard.

Get my prices, which are right.

L. T. WEISS, Sole Manufacturer
288-290 Taaffe Place, BROOKLYN, N.Y.

Martin Timmer, Knox, No. Dak., writes:

"Please stop my 'ad' (situation wanted) in your paper, as I have had dozens of letters in reply and have found the position I wanted."

Gillette Safety Razor

NO HONING NO STROPPING

The Most Wonderful Selling Razor in the World

IT PLEASES EVERY PATRON, WHO, IN TURN, BRINGS A NEW CUSTOMER.

"THE GILLETTE" sales are permanent, it turns orders to money and profits.

"THE GILLETTE" blade is of fine, flexible, wafer steel that shaves. 20 to 40 quick and comfortable shaves from each blade.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
Quadruple gold-plated set with 12 blades,	10.00
Quadruple gold-plated set with 12 blades and monogram,	12.00
Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
Other combination sets in silver and gold up to	50.00

Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

We supply our dealers liberally with signs, booklets and hangers. Write for our uniform discounts and facts.

GILLETTE SALES COMPANY
TIMES BLDG., NEW YORK CITY

The OLD RELIABLE

STAR SAFETY RAZORS

Used for a quarter of a century by men of all nations.

Move all the time; invariably satisfies the customer.

The SECRET
The 3 STARS BLADE

Manufactured under a process peculiar to Kampfe Brothers.

Highest Award Wherever Exhibited:
Paris, 1900 Buffalo, 1901 St. Louis, 1904 Portland, 1905

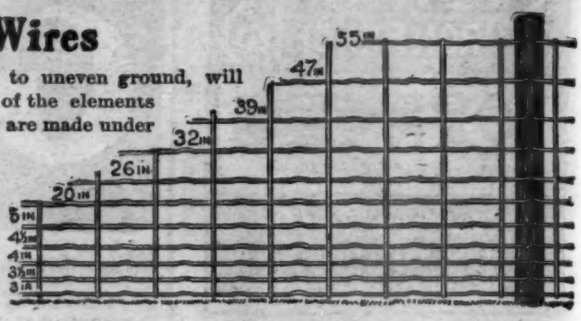
Write for Quotations and Secure an Agency.

KAMPFE BROTHERS,
Manufacturers, 8-12 Reade Street, NEW YORK

Where Successful business men have advertised is pretty safe to advertise.

"Pittsburgh Perfect" Fences

All Galvanized Steel Wires



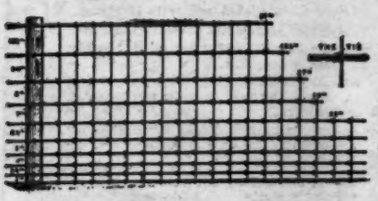
Are durable, strong and adjustable. They can be adjusted to uneven ground, will curb in the strongest beast and will withstand the attacks of the elements longer and surer than any other fence on the market. They are made under the same favorable conditions and as carefully as all the

"Pittsburgh Perfect" Brands

of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers can sell goods readily which are MANUFACTURED BY

The Pittsburgh Steel Co., Pittsburgh, Pa.

The Fence That Suits



Your Customer

is the one for you to handle

Woven Field Fencing

Both Single and Double Strand.

JUMBO POULTRY turns everything.
Lighter Poultry for less money of Various Weights.

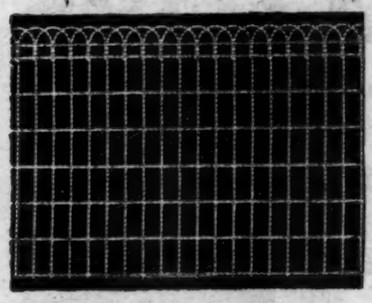
Lawn and Cemetery Fence, Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.

CEDAR RAPIDS, - IOWA

"Fences that Sell"



This is a good one; we have others.
Many dealers handling.
We want more.

We also manufacture Field Fence, Wire Gates.

CYCLONE FENCE CO.

Dept. 10 Waukegan, Ill.

HIGH-GRADE BUGGIES

$47.50 AND UP. Dealers Only.

Strictly First-Class Material

JAMES & MEYER BUGGY CO.

Write for Catalog and Price Lawrenceburg, Ind.

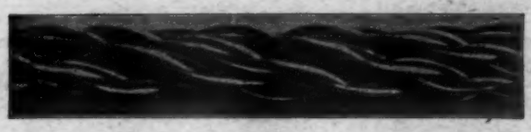
TEN GOOD REASONS

Why You Should Use the Security Copper Tube Lightning Rod in Preference to Any Other:

1. It is constructed on the most scientific principles; receiving the highest award, diploma and medal from the Royal Academy of Science and Arts, Paris, France, April 30, 1897.
2. It has a large, round, smooth surface, the best form for a lightning conductor.
3. It is the only lightning rod patented in the United States with Automatic Water Supply insuring a Perfect Ground Connection at all times, which is the most important part of any rod.
4. It is the only Copper Rod that has a patented Coupling of Pure Copper, which makes the joint the strongest part of the rod.
5. It is held up off the building by a Galvanized Fastener and Galvanized Brace, not resting on the building to form a dam for water to rot the shingles.
6. It is furnished with the most complete and best outfit of fixtures, points, balls and vanes.
7. It is sold by responsible business men, who see that it is properly put up and kept in repair.
8. It has never failed to afford perfect protection from lightning and gives general satisfaction in every respect.
9. The company is responsible and gives you a guarantee on the rods for twenty years, will refund all money received for the rods and pay $500 reward to find a building burned by lightning with their copper tube rods on in circuit form.
10. The above offer has been made for the past 14 years and the reward has never been claimed. This proves that our lightning rods are sure and perfect protection against lightning.

The Security Lightning Rod Co.,
BURLINGTON, WIS.

LIGHTNING RODS ARE A PROTECTION



when you use our

Pure Copper Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county, send for catalog and prices to

MAHER & SON, Preston, Ia. The firm that cut down the price of Lightning Rods.

Some people pay out thousands of dollars a year for advertising. Do you think they are imprudent or reckless?

MANUFACTURERS

Contemplating establishing plants in the West should take advantage of a location on

THE NORTH WESTERN LINE C.&N.W.RY.

Chicago & North-Western Ry.

WHICH REACHES THE FAMOUS

Water Powers, Coal Fields, Iron Ore Ranges, Hard & Soft Lumber Districts

of the West and Northwest, and affords the best means of transportation to the markets of the world. For further particulars apply to

MARVIN HUGHITT, Jr. Freight Traffic Mgr. **E. D. BRIGHAM,** Gen. Freight Agt.

CHICAGO.

A Cool 300-Mile Ride Along the Mississippi

This is the delightful experience of those who travel on the Burlington Route's new daylight trains between Chicago and St. Paul and Minneapolis.

The "Minnesota Day Limited" leaves Chicago at 9:20 a. m., arrives St. Paul at 10:00 p.m., arrives Minneapolis 10:45 p.m.

The Chicago Day Limited leaves Minneapolis 7:30 a. m., St. Paul 8:20 a. m., arrives Chicago at 9:35 p. m.

Passengers on these trains spend the greater part of the day within stone's throw of the picturesque Mississippi river—a cool, comfortable, restful journey.

Send for illustrated booklet.

P. S. EUSTIS,
Passenger Traffic Manager,
Chicago.

Persistent Advertising

ONE who watches carefully the pages of general advertising mediums is struck by two things: the persistency with which those advertisers who are recognized as successful maintain their advertising week after week, month after month, and year after year; they never seem to abate their effort, apparently the volume of their business increases steadily. The other thing noticeable is the large number of advertisers who thrust their announcements above the surface for a little while and then sink into oblivion. They either had not merit as a basis for their claims or they did not possess the skill to steer their enterprise successfully, or else they lacked the nerve to put forth proper effort.—*Advertising Experience.*

Do you want to increase your business on White Lead?

Do you want to sell a White Lead which is not advertised by any Catalogue or Mail Order House?

Do you want to sell a White Lead that is BETTER than Strictly Pure White Lead?

Do you want to sell a White Lead which is put up in Steel Kegs?

Do you want to be the only dealer in your city to handle an article of this kind?

If so, write at once to

Enterprise Paint Mfg. Co.

Van Buren and Peoria Streets, Chicago

Freezes two flavors of Ice Cream or an Ice or Sherbet and Ice Cream at one and the same time, in one freezer—Something entirely new—never done before.

"American Twin"

"Lightning"

"Blizzard"

THEY ARE
Well Advertised,
In Demand,
Easily Sold,
Satisfactory in Use,
Of Known Reputation

THEY EXCEL IN
Easy Running,
Quick Freezing,
Economy,
Convenience,
Practical Results.

THE BEST ICE CREAM FREEZERS in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

Sold by leading jobbers. **Catalog sent free:**

North Bros. Mfg. Co., Philadelphia.

Berger's Gutter Hangers

ARE THE STRONGEST, NEATEST AND HANDIEST MADE.

Many styles to suit any building. The Royal Circle shown herewith is an improvement on the old Gem Circle. Send for free sample.

BERGER BROS. CO.

Office and Store: 237 Arch Street. Warerooms: 100-02-04 Bread Street. Factory: 3114-16-18-20 N. 17th Street,

PHILADELPHIA.

Why is the *Marlin* Repeating Shotgun, Model No. 17, the best low-priced repeating shotgun in the world?

By making this gun with a solid frame and a straight grip stock a number of parts have been eliminated. The result is a stronger, simpler, cleaner gun than any other repeating model and a very much less costly one.

The exclusively *Marlin* solid top and side ejection are features of Model 17 and to these famous *Marlin* ideas are added the new double extractor and a two-piece safety recoil block—devices which repeating shotgun users will welcome.

The *Marlin* breech block and working parts are *cut* from solid drop forgings. The barrel of special rolled steel is bored for both smokeless powder and black. The guaranteed *Marlin* pattern of 325 pellets with 1¼ oz. No. 8 shot in a 30 in. circle at 40 yards is maintained in Model 17.

When the ducks come rushing in among the decoys or the grouse roar off through the dead leaves you cannot be armed with a better, quicker, harder-hitting gun than the *Marlin* Model 17.

It is a first-class quail gun. For woodcock, snipe, prairie chickens, sharp tail grouse or any other bird shooting it is unsurpassed.

Its records at the traps are wonderful.

TO ALL DEALERS HANDLING FIREARMS:

The above is one of seven advertisements to be used by the Marlin Company in their 1906 advertising campaign. These "ads" will be inserted in a list of magazines selected for their *quality*, known to be bought and read by a class of people financially able to buy Marlin repeaters, and having a total guaranteed circulation per month of 5,000,000. Estimating five readers to a magazine, this will give a total, for seven months, of 25,000,000 readers.

In addition, Marlin goods are advertised in farm papers, hardware papers, sporting goods papers and in many miscellaneous publications.

In our advertisements we ask for six cents in postage stamps. This means that a person must furnish paper and envelope, a two-cent stamp for mailing, include six cents and take the time and trouble necessary to write us a letter. Our object is to cut out catalog collectors, young boys and girls and people who are not interested enough to invest ten cents and the time and trouble necessary.

We reason that if a person is interested enough to do this, it is worth our while to go after him seriously and earnestly, and on all inquirers answering these advertisements and spending ten cents on us, we spend more than twenty cents.

We send each and every one a 136-page catalog illustrated with hundreds of engravings, having a beautiful cover in colors and containing a large amount of general information interesting and instructive to all shooters whether they use Marlin repeaters or not.

We send also a copy of our 96-page illustrated testimonial book and a personal letter in which we refer them to the nearest dealer that we know who carries a good stock of Marlin goods and is enterprising enough to follow up an inquirer and try to sell the man a Marlin repeater.

We also send to that dealer the name and address of the party inquiring, thereby putting the dealer and the consumer in direct communication one with the other. We also follow up the customer and urge him to buy through the dealer.

Our advertising campaign each year brings us thousands of inquiries and makes us a great deal of expense and trouble, as you can readily see, but we believe that it pays and it will pay you if you will take part in it.

If you are interested please write us and give us full particulars as to exactly where you stand on Marlin goods. If you are with us we want to know it and send you some of this business. Write us to-day and tell us whether you want to be on our dealers' list or not.

There are many other valuable Marlin ideas included in every Marlin gun. Send six cents in stamps for our handsome catalog, which explains all and contains much other valuable information.

The Marlin Firearms Co., 95 Willow St., New Haven, Ct.

THERE'S A SCREW LOOSE

In the shear you are using **UNLESS** you have the
SCREWLESS SPRINGSET SHEAR

THAT is the shear you should buy and the shear you should sell

BECAUSE

1. It never wears loose at the joint.
2. Blades always held together automatically with just the right spring tension.
3. Pivot free to rotate, forming roller bearing.
4. Largely self-sharpening.
5. Handy to take apart.
6. Tension adjustable.
7. **Gives perfect satisfaction to your customers.**

Which kind do you handle, the Screw-Loose, Screw-Set Shear, or the SCREWLESS SPRINGSET SHEAR?

Visiting buyers are invited to inspect our exhibit at the House Furnishing Goods Exhibition, Madison Square Garden (Booth 75), August 6-11.

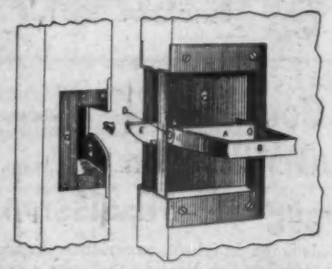
DAVIES AUTOMATIC SHEAR CO., 41-43 Maiden Lane, New York

HAVE YOU A GOOD
Barn Door Latch
FOR
SLIDING DOORS?

One that sets in flush on both sides and at the same time has large handles.

(Note that handle "B" drops into recess perfectly flush, allowing door to slide clear back).

One that is all steel, and as suitable for swing as for sliding doors, and is packed one in a box, complete with screws.



BUY THE "GEM"

The only good Sliding Door Latch made, of your jobber, or

C. A. PECK
Hardware & Mfg. Co.
BERLIN, WIS.

The LENOX HOTEL IN BUFFALO

Modern. Highest Grade. Fireproof.

OUR OWN ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS, operate between the Hotel, Depots, Wharves & Business District every few minutes.

EUROPEAN PLAN

Rates $1.50 per day and upward.

GEORGE DUCHSCHERER, Proprietor.

Planet R. F. D. Mail Box

with patented Automatic Flag Signal. Made of 20 gauge galvanized steel. Each box warranted. $5.40 per dozen.

Sanitary Adjustable Strainer Pail

IX Charcoal Tin

12 qt. $4.50

14 qt. 5.00

Jobbers Sell at Factory Prices. Ask Them.

SMITH BROS. MFG. CO.
246-254 E. Kinzie St., CHICAGO, ILL.
Also at INDIANAPOLIS, IND.

BRISCOE MANUFACTURING COMPANY

O-RIB-O WARE

DETROIT, MICH.

NOW IS THE TIME TO ORDER

Klondike Hunting Knives.

These goods are made from the finest quality razor steel and are fully warranted. Full crocus polished blades, curly grain handles, brass linings.

No. 432. (Old No. 2), 2¾ in. Blade, 4 inches closed. List, per dozen. - $13.35
No. 430. (Old No. 01), 4 in. Blade, 5¾ inches closed. List. per dozen. - $15.00

Always insist on having **Klondike** Hunting Knives. If your dealer has no stock write us for a copy of our Green Book FREE.

Write for Trade Discount.

Smith & Hemenway Co.
108-110 Duane Street, New York

BARKEEPER'S FRIEND

Marble, Glass, Nickel, Brass, Copper, Tin and German Silver can all be cleaned and polished with it easier than with anything else.

Price 25c per lb.

Highest Award:—Chicago World's Fair, 1893; Louisiana Purchase Exposition, St. Louis, Mo., 1904.

Let us send you a FREE SAMPLE

GEO. WM. HOFFMAN
295 E. Washington St.
INDIANAPOLIS, - IND.

For Sale by Jobbing Trade.

James M. Kellogg,
Bozeman, Mont., writes:

"For the general information it contains, your book, 'The Manual of Receipts,' is well worth the money."

Clipper Lawn Mower Co., Dixon, Ill.

Manufacturers of Hand and Pony Mowers, also Marine Gasoline Engines from 2 to 8 horse power.

THE MOWER That will kill all the weeds in your lawns.

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. The Clipper will do it. If you wish Clippers send in your orders.

Make More Money

Rural Routes are going in all around you. New boxes are needed on old routes. You should get this business. You *can* get it with

Bates-Hawley Patent **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the best advertised and the easiest sold.

SIGNAL MAIL BOX CO.
106, Benton St., JOLIET, ILLINOIS.

Steel Hardware Shelf Boxes

Screw Cases, Etc.

Send for Circulars.

Heller Co., MONTPELIER, OHIO.

C. N. HOOPER, Dubuque, Iowa.

VITREOUS ENAMELING TECHNOLOGIST

Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.

Fresh Meat

Is the First Thing. A Steel Spider with the Name

"NEVER-BREAK"

Stamped on the Handle is the next, if you do not want a scorched or burnt Chop or Steak.

Have you our Complete Catalogue of Stamped Steel Cooking Utensils?

The AVERY STAMPING CO.
Cleveland, Ohio.

Mfrs Shovels, Spades and Scoops of Highest Grade.

DESIRABLE FACTORY OPENINGS.

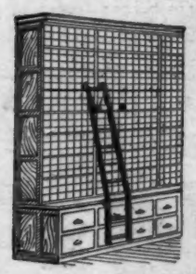
It will repay all manufacturers dissatisfied with their present locations, to investigate the excellent manufacturing conditions and opportunities in the Central West and Southwest along the

Rock Island — FRISCO

Factories to turn out builder's hardware of all kinds, and in fact almost every article in daily use, would find the raw material, fuel and labor conditions very favorable. **Write for particulars.**

Illustrated booklet "Opportunities" and other Rock Island-Frisco literature on application.

M. SCHULTER,
Industrial Commissioner,
Frisco Building, ST. LOUIS, MO.



Milbradt's Rolling Shelf Ladders

Are made to fit all kinds of high shelvings, and are guaranteed to be satisfactory in every respect

HIGHEST AWARD St. Louis World's Fair

Send for Catalog and Prices

JOHN CALANDER
146-148 E. 8th Street
ST. PAUL, MINN.

L. W. Richards, Memphis, Tenn., writes: "Inclosed please find check for $2 for which kindly send me the American Artisan for one year and your House Warming Manual as advertised. I consider the American Artisan and Hardware Record one of the most valuable books ever published for my line of business and I wish you success." 11-05

THE WATER WAY

BETWEEN

DETROIT AND BUFFALO

The D. & B. Line Steamers leave Detroit weekdays at 5:00 p.m., Sundays at 4:00 p. m. (central time) and from Buffalo daily at 5:30 p. m. (eastern time) reaching their destination the next morning. Direct connections with early morning trains. Lowest rates and superior service to all points east. Popular week end excursions to Buffalo and Niagara Falls leave Detroit every Saturday and return Monday morning.

RAIL TICKETS AVAILABLE ON STEAMERS

All classes of tickets sold reading via Michigan Central, Wabash and Grand Trunk railways between Detroit and Buffalo in either direction will be accepted for transportation on D. & B. Line Steamers. Send 2c. stamp for illustrated pamphlet. Address: **A. A. SCHANTZ, Gen. Supt. & P. T. M.**

DETROIT & BUFFALO STEAMBOAT CO., DETROIT, MICH.

THE ROSELAND GOODS

Will not remain long on your shelves. The last piece will bring as much as the first, because they are all good ones. Not a cull in them. If your jobber does not carry these goods, write us and we will send you circulars and advise who carries our line. —*We Manufacture*—

The New Standard Flour Sifter, Roseland Bread Toasters, Rex Fruit and Vegetable Strainers, Queen Jelly Strainers, Tea and Coffee Strainers, Flue Stops, Jacket Cans, and a variety of Tin Specialties.

ROSELAND CAN & SPECIALTY CO., ROCKFORD, ILL., U. S. A.

U. S. CLOTHES PINS

never rust, smut, split, or blow off the line.
Any special clips made to order.

U. S. CLOTHES PIN COMPANY,
MONTPELIER, VT., U. S. A.

SPERRY'S CALDRONS

Full measure, guaranteed perfect original patterns, with metal distributed where it is needed. Many Caldrons are made from our casting as patterns. They are inferior to originals, as they have light bottoms and heavy sides and hold less.

Twelve sizes always in stock.

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS **Batavia, Ill.**

THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

J. E. WHITACRE MANUFACTURING COMPANY

ROCKFORD, ILL.

Manufacturers of Sheet Metal Specialties

Trade
TWELVE-IN-ONE
Mark
Husker Beats 'Em All!

Nothing but the hook to catch the husk. No nuts or projecting screw heads and ends. Write for a circular to-day.

Sold by Jobbers,

F. D. KEES MFG. CO.

Box 522 Beatrice, NEB.

Wash Boilers

STAMPED TINWARE
JAPANNED WARE
GREY ENAMELED WARE

OUR PRICES WILL INTEREST YOU.

STAR ENAMELING & STAMPING CO., Pittsburgh, Pa.

Yale Locks

The need of locks may not be a credit to civilization but a Yale lock is a credit to him who uses it and to him *who sells it.*

The genuine Yale lock always has the trade mark

YALE

on the cylinder as shown above. That name is a guarantee of quality in material and workmanship as well as of the latest ideas in lock construction.

Hardware dealers should write for our No. 18 Catalog which lists our more active goods.

Yale & Towne Mfg. Co.

9 Murray St., New York

Chicago Office: 90 Lake Street

Cabinet Makers' Benches.

No. 1 BENCH.

We are the largest manufacturers of Benches in the World.

Write for catalog describing our complete line of Cabinet, Carvers, Pattern Makers and Manual Training Benches, Hand Screws, Cabinet Makers' Clamps, etc.

Grand Rapids Hand Screw Co.,

160 South Ionia Street, Grand Rapids, Mich.

STRAP & T HINGES
Pressed
Steel Shelf
Brackets

BUTT HINGES
Barn Door
Hangers
and Track

Our Planished Steel **STRAP and T HINGES** are now all made on Automatic Machinery—Every one is as true as a Die. Our **BUTTS** are unequalled in Workmanship and Finish, All our Goods Guaranteed—**BEST IN THE WORLD.**
(And they cost no more.)

THE GRIFFIN MFG. CO., - Erie, Pa.

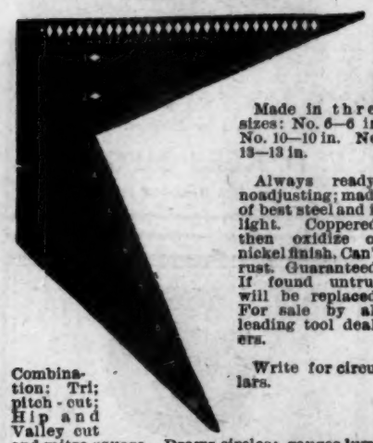
JOHN H. ROBERTS,

Writes: "I consider **The American Artisan** a great help to any tinner or any man in business."

MUNHALL, PA.

Goodell-Pratt Company
GREENFIELD, MASS., U. S. A.
Catalogue Free
HACK SAWS
FAMOUS FOR TEMPER AND CUT
HAND AND MACHINE BLADES OF ALL STANDARD LENGTHS AND WEIGHTS.

The New Universal Square
"NEW STYLE"



Made in three sizes: No. 6—6 in. No. 10—10 in. No. 13—13 in.

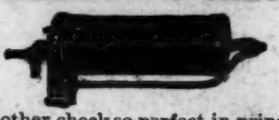
Always ready; noadjusting; made of best steel and is light. Coppered, then oxidize or nickel finish. Can't rust. Guaranteed. If found untrue will be replaced. For sale by all leading tool dealers.

Write for circulars.

Combination: Tri; pitch-cut; Hip and Valley cut and mitre square. Draws circles; gauges lumber; octagonal cuts: laying out mortise and tenons; plumb and level; straight edge; rule scale; and innumerable other purposes. To operate you simply reverse it from side to side. It marks ½-in on one side and ¼ in. on the other.

THE DUBY & SHINN MFG. CO., Inc.
Office and Works: 34 E. 29th St.
NEW YORK CITY

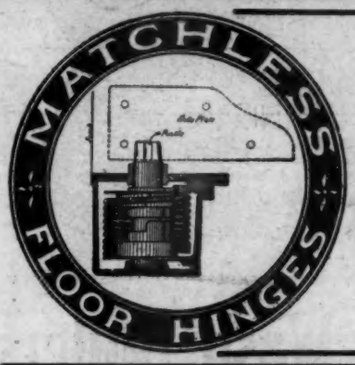
FOURTH SEASON OF "PULLMAN" SCREEN DOOR CHECK



No other check so perfect in principle and material, or so satisfactory as to working and wearing qualities. Polished Brass Cylinder; all the remainder cold steel.

SEND FOR NEW CATALOG.
PULLMAN MFG. COMPANY, Rochester, N. Y., U.S.A

Chas. Lusted, Sr., La Fayette, Iowa, writes: "THE AMERICAN ARTISAN is the inventor's friend."



The Sincerest Flattery for the "Matchless" is the imitations which are to be found in the market.

The Matchless double-acting floor spring hinge is ball bearing. This insures a minimum of friction. The matchless operates easy and without noise.

They can be fitted to any door in Bank, Church, Vestibule or Pantry,

Send for our fully illustrated catalog and price list. Address Dept. A,

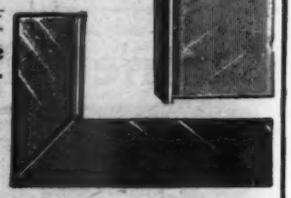
LAWSON MFG. CO.,
40 Dearborn Street, Chicago.
101 Reade Street, New York.

Try Square No. 5—6-inch only. Note the Gauge edge.

Fox's N. P. All Steel Tools
CARRIED BY ALL JOBBERS.
Popular priced but accurate.

No. 3 Try and Miter Square, 10 inches only.

On this line: No. 2 Miter Square 4½-in., 6-in., 8-in.



JULIUS DEERING of Eau Claire, Wis., writes:

Kindly discontinue my ad in your valuable paper as I have found the party desired. I always receive about fifteen letters when I use your want columns.

12—5

YALE
Russia finish, pat. lock
STOVE PIPE.

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY
HEMP & CO.
2nd & Chouteau Ave.
ST. LOUIS.

In the event your jobber does not handle this pipe send your inquiries to us

No. 5, $4.00 Each

We are producing this Level to give users all the advantages of a full brass bound level at a nominal price. The stock is very choice selected cherry, corners are heavy, tips cast, and especially hard, to stand wear.

A beautiful Level, polished and strictly first class. Packed one in a box, and six in a case. Any dealer can handle a case very quickly. Write for discount.

THE BAKER-McMILLEN CO., AKRON, OHIO, U. S. A.

Stanley Rule and Level Co.
IMPROVED CARPENTERS' TOOLS

Sold by All Hardware Dealers. **NEW BRITAIN, CONN.**

TRIUMPH

In Boiler-Making

Quality, Construction and Finish are the distinguishing features of

Reed's Monarch Hand-made Wash-Boiler

Four grades—1X, 2X, 3X, 4X, 5A tissue lined charcoal plate with 14, 16, 18 and 20-oz. full weight copper bottoms, full line tin bottom and metallic bottom boilers, also four grades all copper boilers.

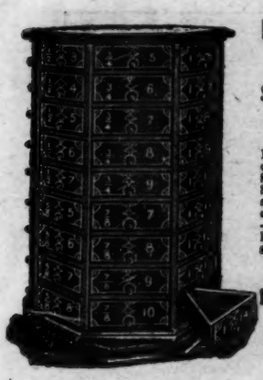
Monarch boilers all wired with 5-16 hard market steel wire drop forged, which makes the boiler strong enough to withstand a pressure of 300 lbs. without deflecting 1-16 of an inch. *See Cut.*

Furnished with Reed's new, seamless pressed cover, with 1-inch rim; cover and rim made of one piece; patent cold stationary handle, riveted on top of cover. Fits like a glove—is strong and durable.

Catalogue and price list mailed free on application. A comparison of prices will warrant your patronage, as we are in a position to furnish the best boiler for the least money made in America.

Reed Manufacturing Co., Newark, N. Y.

Branch Offices: 223 West 12th Street, CHICAGO
55 Atlas Bank Bldg., CINCINNATI



Bolt and Screw Cases

SAVE TIME and MONEY

A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact anyone who handles small articles—last indefinitely. Send for descriptive booklet.

AMERICAN BOLT & SCREW CASE CO.
Dayton, Ohio, U. S. A.

We want one Hardware Merchant as exclusive Agent in each town in Nebraska and South Dakota.

Paxton & Gallagher Co.
Omaha, Neb.

WE PREPARE PLANS, ESTIMATES AND REPORTS FOR

INDUSTRIAL PLANTS

We reduce

Labor & Expense Account

to a minimum by applying

LABOR SAVING DEVICES & SPECIAL MACHINERY

and by avoiding unnecessary Handling of Materials.

We remodel Antiquated Plants and make them profitable.

Vollkommer & Co.
Engineers and Technical Experts
1112 Empire Bldg., Pittsburg, Pa.

The MAJESTIC WASHING MACHINE

Roller bearings. Large fly wheel. Lightest running Washer on the market. People are writing us daily to know where they can buy the Majestic. It is the quickest seller and commands the biggest profit to you of any Washing Machine made. That is why you should sell it. The tub of the **Majestic** is made of selected **Virginia White Cedar**, and will stand the action of water a life time. It is bound with our celebrated **Electric-Welded Wire Hoops**, is steam-tight and easy to operate. Two hundred thousand satisfied customers will testify to all we say.

We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

Richmond Cedar Works
Manufacturers of Wooden Ware
Richmond, Virginia.

IT'S SO EASY

The established superiority of the

Schroeder Washer

above all others makes it a ready and profitable seller. No kick or complaints come from the user of a

Schroeder Washing Machine

and the selling of them is an easy matter. All are made of the best material, are exceptionally easy running, and every detail is handsomely finished.
Write your Jobber or us for prices.

BENBOW-BRAMMER MFG. CO.
ST. LOUIS, MO.
The Pioneer Washing Machine Manufacturers

THE

WHITE LILY

SELLS AND STAYS SOLD

There are more WHITE LILY WASHERS SOLD than of any other make of WASHING MACHINE.

DO YOU WANT A GOOD SELLER
Write Today

WHITE LILY WASHER CO., TOLEDO, OHIO DAVENPORT, IOWA

J. J. SUCHANEK, Preston, Minn., writes:
"The American Artisan is one of the best papers of its kind that I know of, and I expect it every week as I would a letter from a lady friend."

ELEVATORS
IMPROVED QUICK AND EASY RISING STEAM, ELECTRIC AND HAND POWER
SEND FOR CIRCULARS
KIMBALL BROS. CO.
1031 Ninth St., COUNCIL BLUFFS, IOWA
Kimball Elevator Co., 139 Vincent St., Cleveland, O.

NOW IS THE TIME!

Don't wait until tomorrow but write at once for the exclusive agency for the

ROYAL BLUE Washing Machine

Finished in natural color of wood. Hoops and castings painted with Royal Blue Enamel.

H. F. BRAMMER MFG. CO.

1461 W. 2nd Street **DAVENPORT, IOWA**

Wrings the Mop dry

Peerless Iceland

These are the freezers that sell.

Both feet rest firmly on the floor—no danger of upsetting bucket and wetting feet. *Pressure* that *wrings* mop is from a *spring*, *not* from the foot. Two springs, one on either side are independent of each other, pressure adjusts itself to any unevenness of mop—wrings all of mop thoroughly.

Tub is strong and extra braced. Rollers are solid maple and *never* stick. Attractively labeled—make good display in your store—sure to please customers.

Ask your jobber. **THE DANA MFG. CO., Cincinnati.** **10 Warren Street, N. Y.**

Eagle Mop Wringers and Ohio Detachable Mop Heads and Handles

Meet every service demanded of them. WHY?
Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

Eagle Cooperage Works, Sole Mfrs., **Circleville, O.**

The "HUSTLER" Ash Sifter

Is a Winner. Pleases Everybody

Sales last season were more than double those of the previous season. Dealers everywhere are enthusiastic over the sale of the Hustler. Orders should be placed at once to insure prompt delivery.

Send for Catalogue and Prices.

Hill Dryer Company

Also Manufacturers of Hill's Famous Dryers

WORCESTER, MASS., U. S. A.

AUG 6 1906

Are My Goods SALABLE?

That is the question every merchant asks himself.

The answer will come at the end of the year when his books are balanced.

KEEN KUTTER

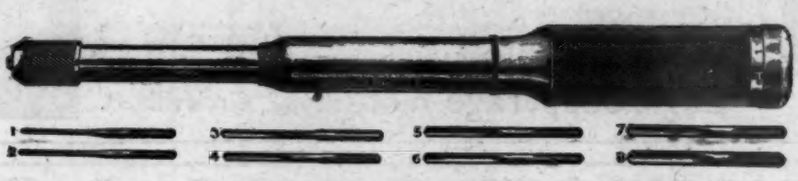
Goods are salable—good sellers, because having learned to make the right kind of tools after 40 years experience, we are telling the public about them and creating an ever-growing reputation for them through our advertising. This makes them salable and profitable for the retail merchant to handle—more profitable than any line or lines of tools and cutlery on earth, and the merchant who sells a complete line of *KEEN KUTTER* Tools is the one who will have a satisfactory balance on the right side of his ledger at the end of the year.

Those who handle *KEEN KUTTER* Goods get the benefit of our advertising FREE.

THIS IS THE DRILL THAT FILLS THE BILL:

No. 108 Automatic Drill

KEEP IT IN STOCK ALWAYS—IT IS IN GREAT DEMAND



Do not be caught napping. Do not be caught without it. Be up-to-date! It is a great seller and is constantly in demand.

WRITE FOR OUR NO. 7 CATALOGUE
It Tells All About This and Scores of Other Tools

GOODELL-PRATT COMPANY

GREENFIELD, MASS., U. S. A.

Peters Factory Loaded Shells

USED BY WINNERS OF THESE RECENT VICTORIES:

OHIO STATE CHAMPIONSHIP,	Dayton, O., June 6-8	E. W. Holding,	48 out of 50
ILLINOIS STATE CHAMPIONSHIP,	Bloomington, Ill., May 24,	J. R. Graham, (19 yards)	94 out of 100
KENTUCKY STATE CHAMPIONSHIP,	Owensboro, Ky., May 24,	Woolfolk Henderson,	98 out of 100
HIGH AMATEUR AVERAGE,	Columbus, O., May 8-11,	R. S. Rhoads,	555 out of 600
DuPONT TROPHY,	Columbus, O., May 8-11,	R. S. Rhoads,	96 out of 100
SMITH TROPHY,	Bloomington, Ill. May 24,	H. W. Cadwallader,	24 out of 25
HIGH GENERAL AVERAGE,	Idaho Falls, Idaho, May 8-9,	C. T. Callison,	386 out of 400
HIGH GENERAL AVERAGE,	Louisville, Ky., May 30,	Woolfolk Henderson,	250 out of 260
HANDICAP TROPHY,	Louisville, Ky., May 30,	Woolfolk Henderson,	49 out of 50 20 YARDS

NEW YORK: 98 Chambers St. T. H. Keller, Mgr.

The Peters Cartridge Co., Cincinnati, O.

Quality Tells

When Henry Disston was asked the question: "WHAT DO YOU PUT IN YOUR SAWS?" He replied: "GOOD STEEL AND HONEST WORK."

UPON THIS FOUNDATION IS BUILT

DISSTON QUALITY

If you want a saw it is best to get one with a name on it that has a reputation. A man who has made a reputation for his goods knows its value as well as its cost and will maintain it.

ESTABLISHED 1840 **HENRY DISSTON & SONS, Inc.** PHILADELPHIA PA.

STEVENS

OUR popular make is generations past the experimental stage. STEVENS RIFLES, PISTOLS, SHOTGUNS, etc., look right, because made right, and for their specific purposes, are positively unexcelled. These facts, together with the tremendous advertising impetus behind the STEVENS, clearly demonstrate why YOU should vigorously and at all times

PUSH STEVENS ARMS

For sale by all Leading Jobbers. Be sure to call for the STEVENS.

SEND FOR CATALOG

J. Stevens Arms & Tool Co.

No. 460 MAIN STREET

CHICOPEE FALLS, MASS.

Good Roofing Tin

Not the imaginary kind of goodness but the real thing that you can see and feel when you examine and work the tin. Samples and prices yours for the asking.

The McClure Co.
Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address
EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

A favorite argument nowadays, with many sellers of Roofing Tin, when others fail is, "Our brand" is equal to "Scott's Extra Coated"

FOLLANSBEE BROTHERS CO.
PITTSBURGH
MAKERS

"Close by to you" shipment if you want

PFLUEGER'S Fishing Tackle

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle.

NOTICE—Free to any Dealer in Sporting Goods. Sent Express Prepaid, 170-Page Illustrated Catalogue No. F25, and Metal Fish Sign in 8-Color Lithograph

The Enterprise Mfg. Co.,
AKRON, OHIO, U. S. A.

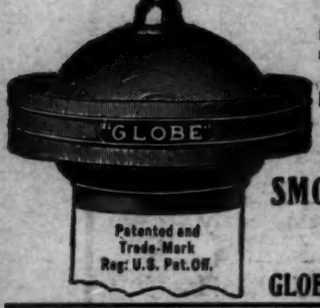
$25 ON 5 TON is what you can save. We make all kinds of scales. Write for prices.

Also R. R. PUMPS and WIND MILLS
Beckman Bros., Des Moines, Ia.

No dealer may call his stock complete without the

STAR EXPANSION BOLT COMPANY
147 Cedar Street, New York
142 Lake Street, Chicago

The "GLOBE" Ventilator



in BRASS, COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED
"GLOBE" Ventilated Ridges. Send for Pamphlet.
Manufactured by
GLOBE VENTILATOR CO., Troy, N. Y.

DELTA FILES

TRADE MARK DELTA

DELTA FILE WORKS
CARVER File Company
PHILADELPHIA, PA.

FILES OF QUALITY

An independent organization not connected with the trust in any form, shape or manner.

The ECLIPSE Nested Stove Pipe Thimble

BEST ON THE MARKET
PATENT PENDING

Saves 80 per cent. of room.
Is stronger than a hand made riveted thimble.
Is always ready to hook together.
Is made so that the lug passes through two slots and then tied.
The lug is always on top; therefore the **LUG** is not an objection to the entering stove pipe.
It is always kept nice and clean in a box: therefore no unsightly, rusty looking thimbles to adorn the stores. Galvanized iron; 5, 6 and 7 inch.

STUBER & KUCK, Manufacturers of Pieced Tinware and all Styles Flour Sifters. **Peoria, Ill.**
Watch for our next advt.

Tinners Find Employment By advertising and using THE
Powers Automatic Chimney Tops

They make chimneys draw, give give tinners employment making stocks and give the dealers profit.
Sold by Hardware Jobbers and Dealers.
Made only by
POWERS BROS.
Streator, Ill.
This cut free to dealers.

THE "CENTENNIAL"
RAIN-WATER CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.
The only single cut off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.
Patent applied for.
Manufactured only by
COONEY & GEIGER
19 and 21 East South Street, Indianapolis, Ind.